

SONY

VIDEOCASSETTE RECORDER

BVW-75



BETACAM SP™

MAINTENANCE MANUAL

Volume 2 6th Edition (Revised 11)

Serial No. 11104 and Higher (JAPAN)

Serial No. 13028 and Higher (USA CANADA)

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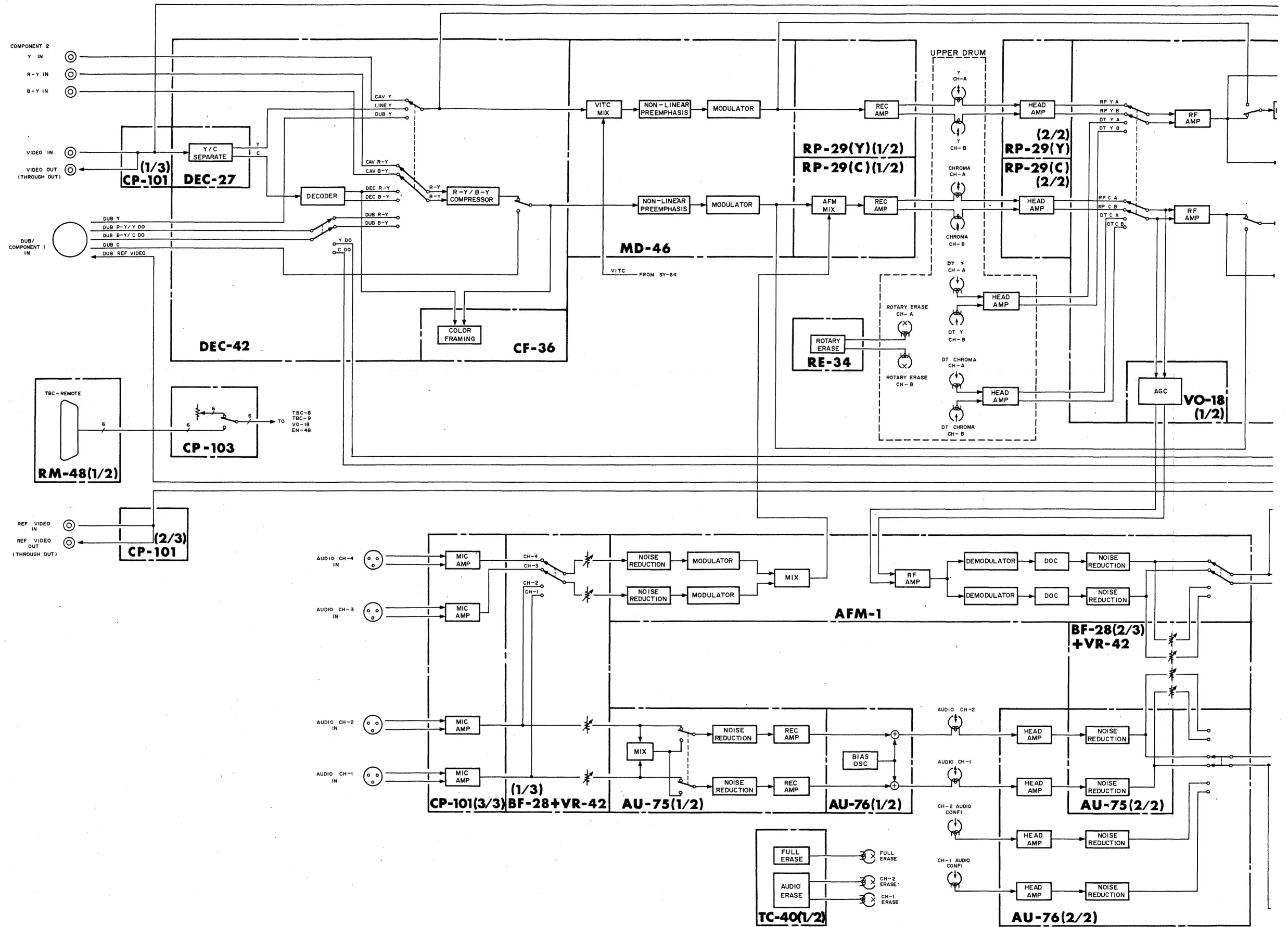
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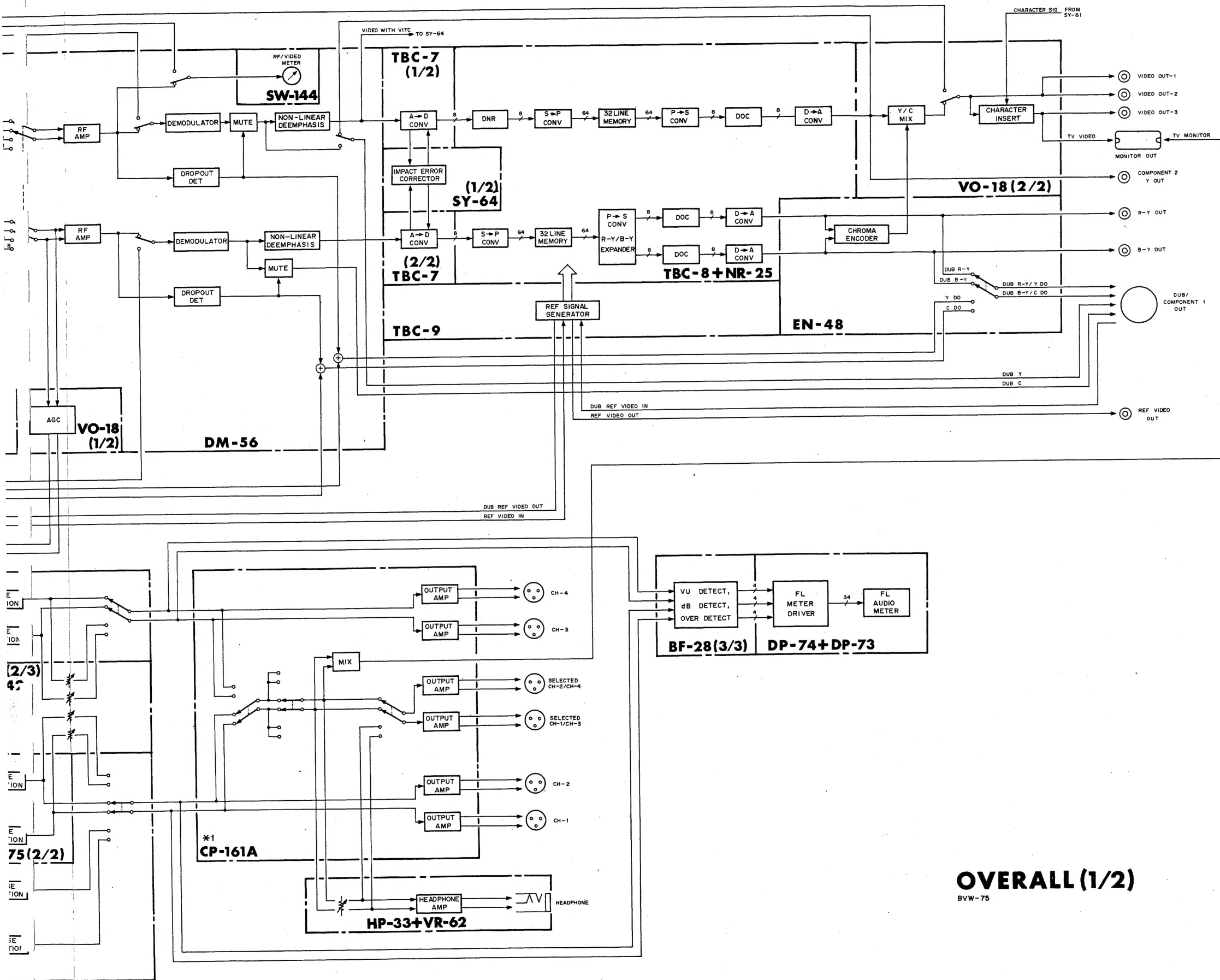
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BLOCK DIAGRAM

OVERALL

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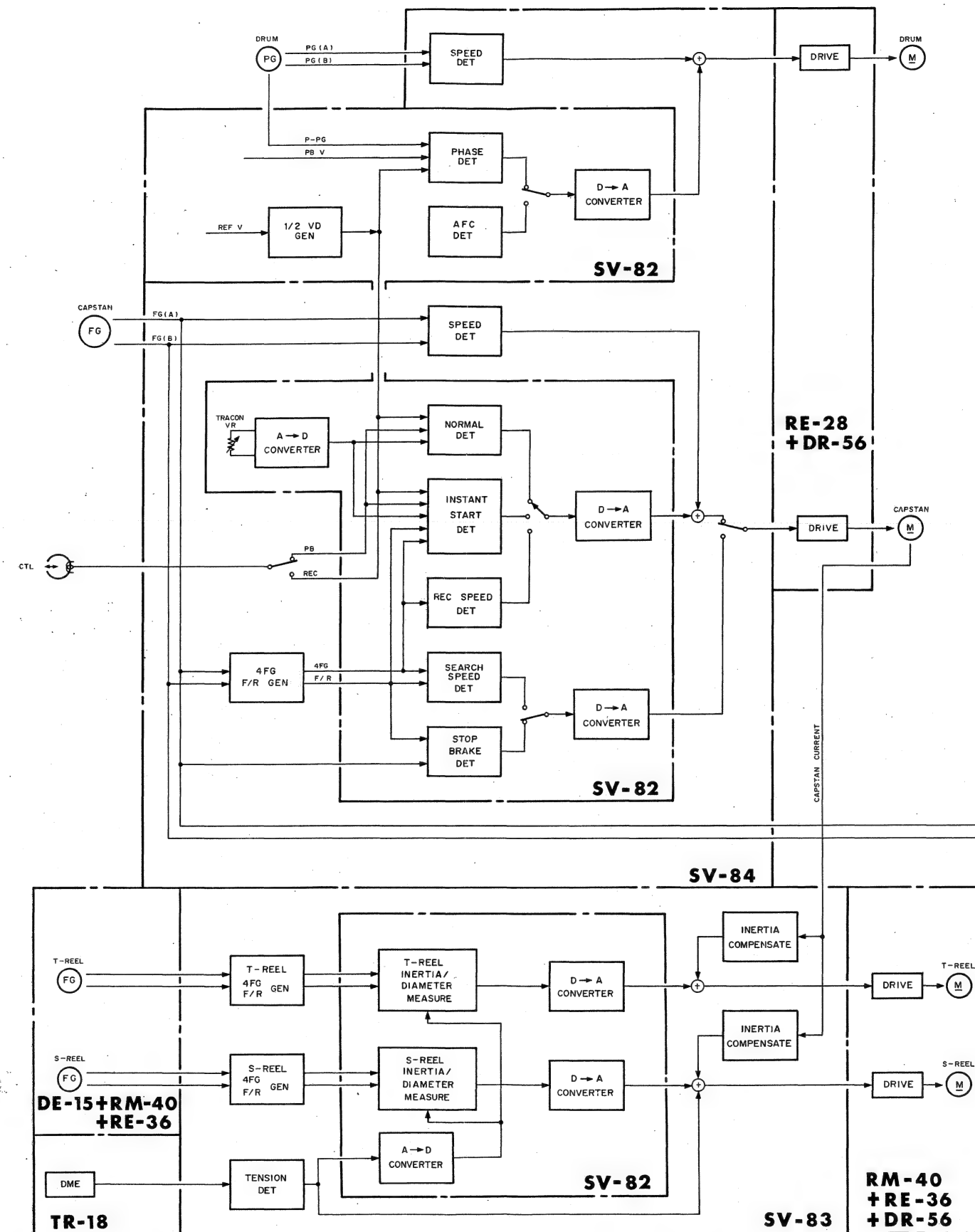
MARK	CHANGE INFORMATION	SERIAL NO.
*1	CP-111+CP-113 → CP-161A	UC: S/N 16570 ~ J: S/N 13024 ~



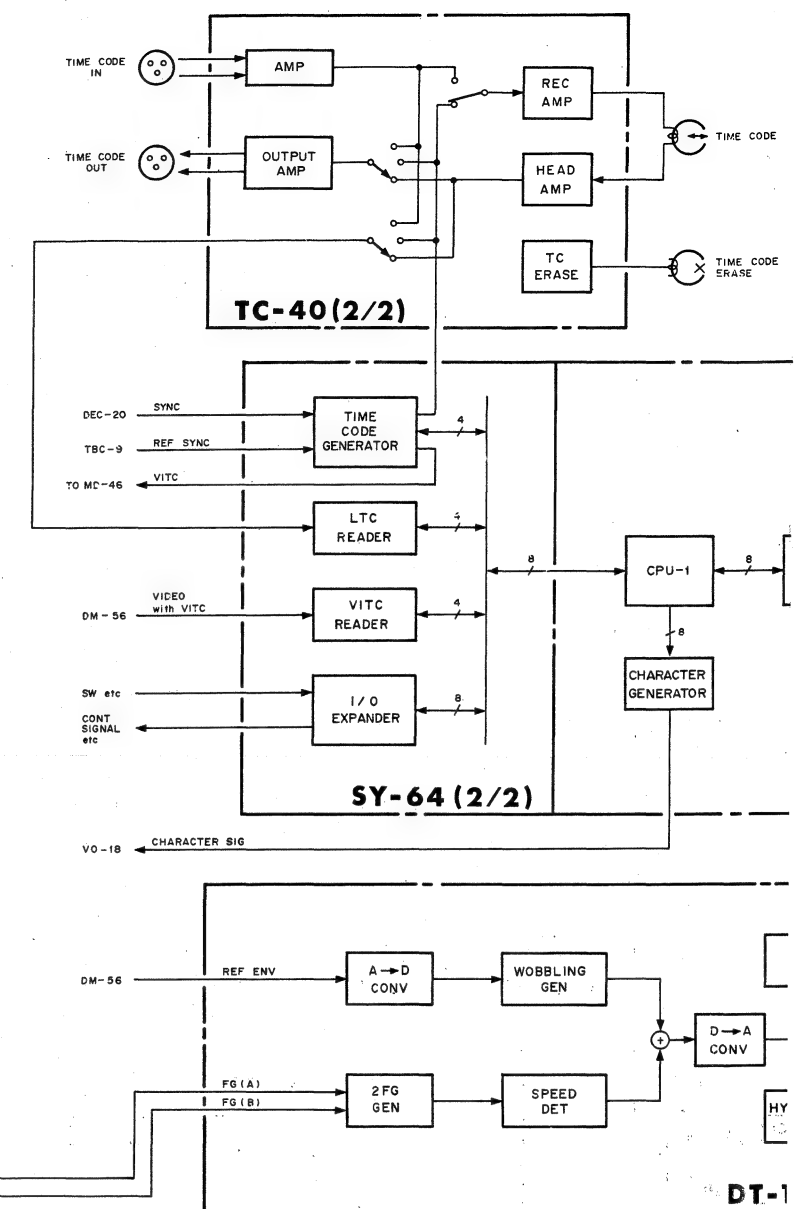


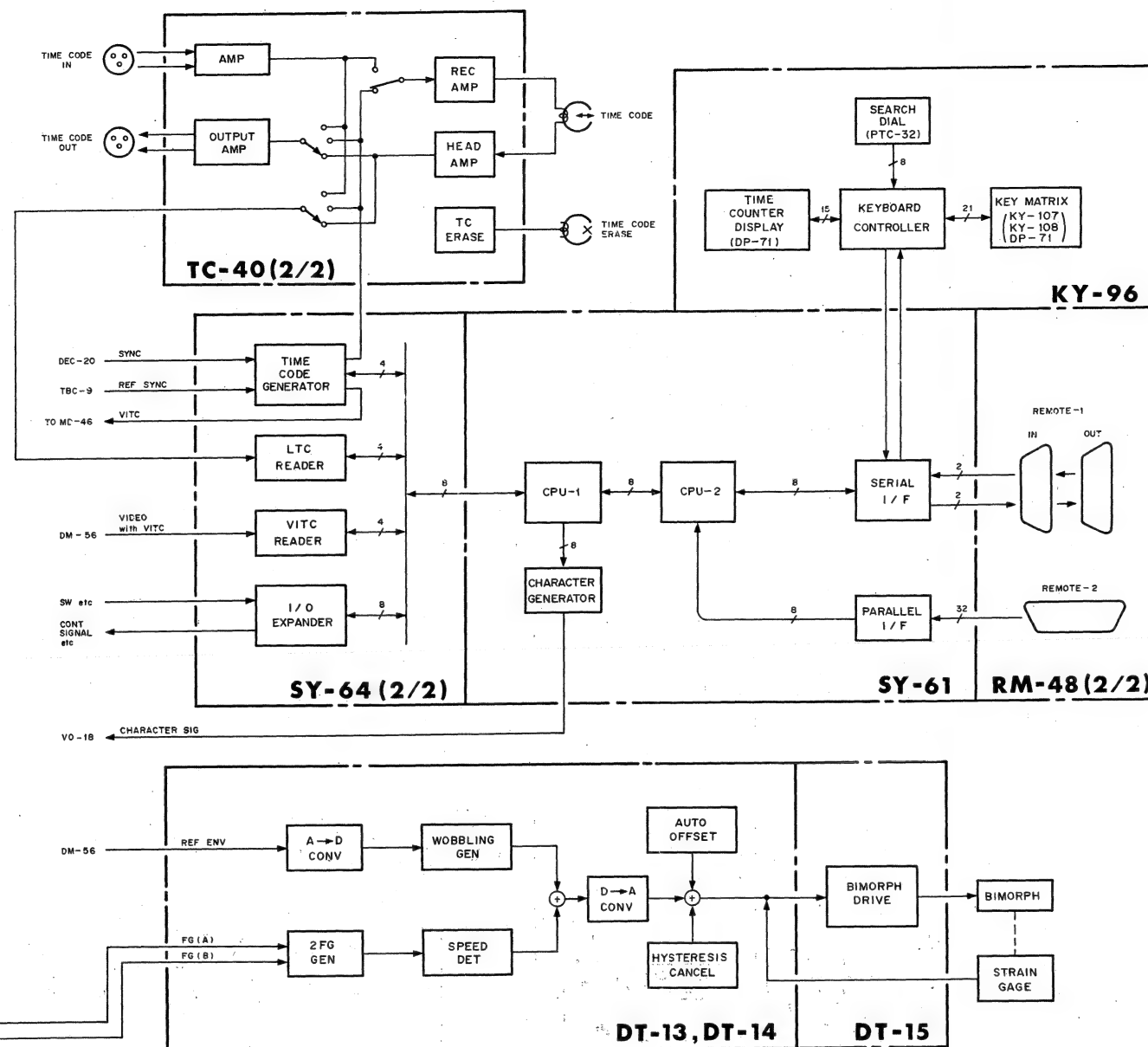
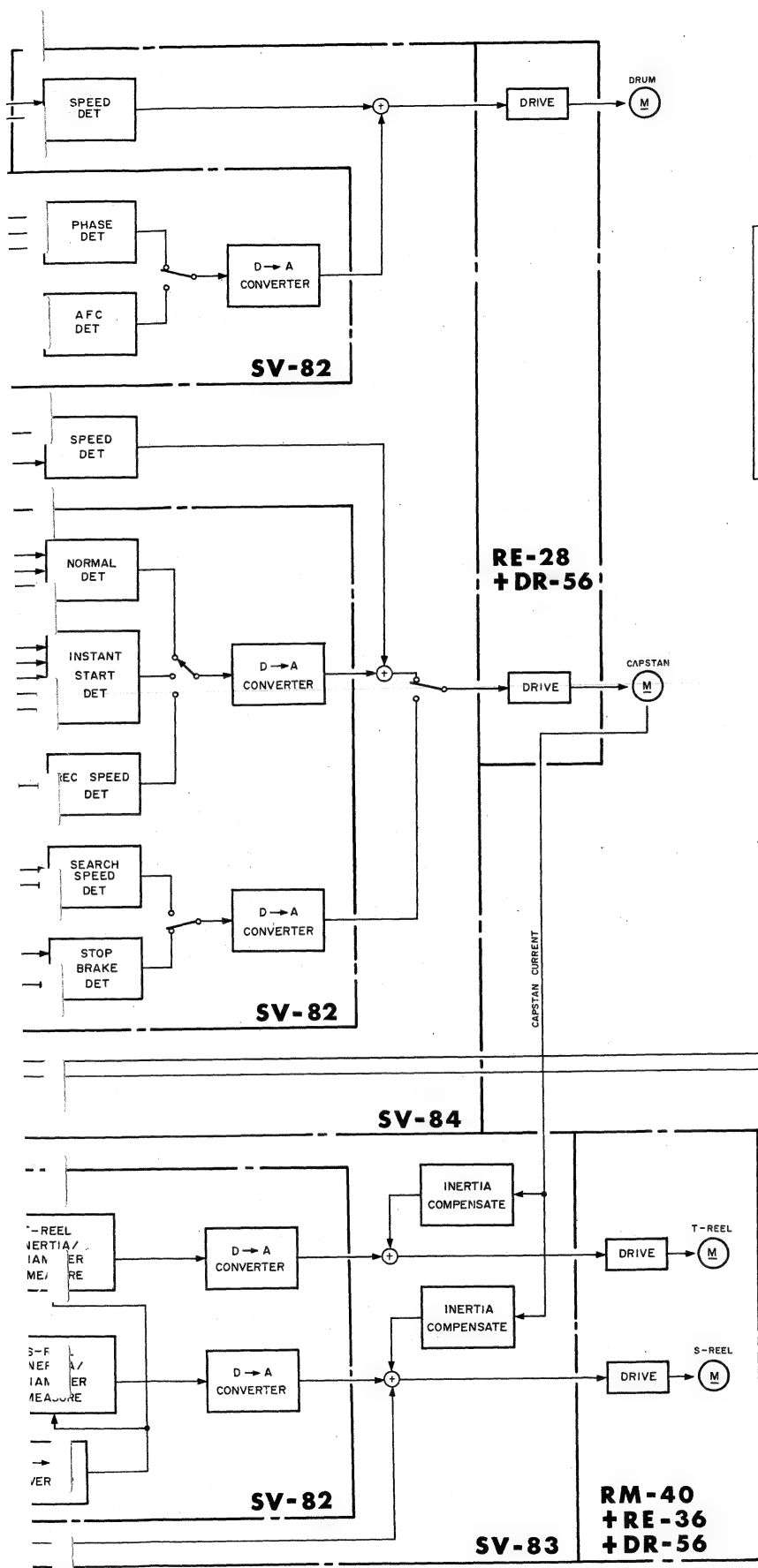
OVERALL (1/2)
BVW-75

OVERALL



OVERALL OVERALL





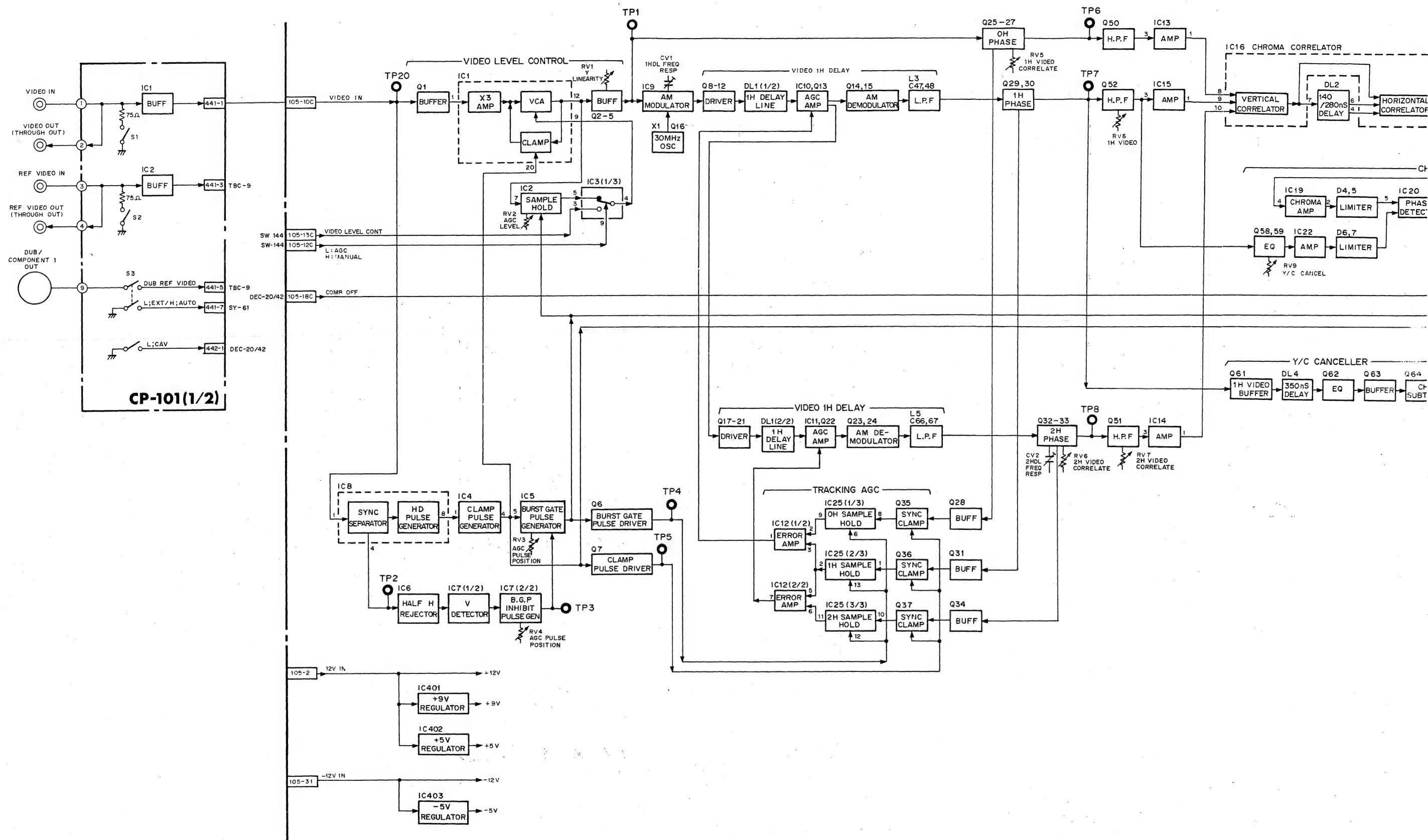
Note on Block Diagram

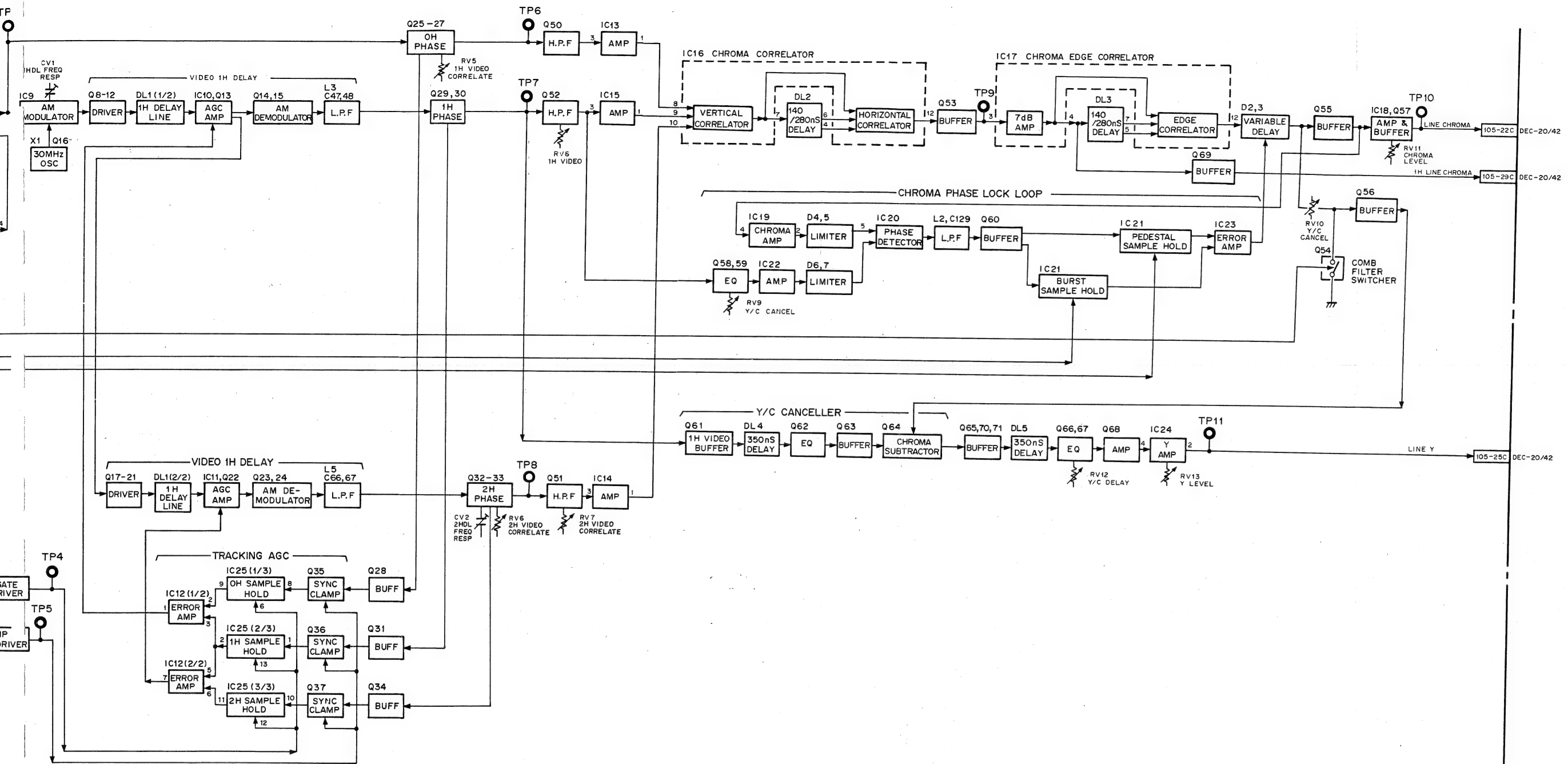
See the overall block diagram for the connector destination's board name in each board's block diagram.

OVERALL (2/2)

BVW-75

Y/C SEPARATOR

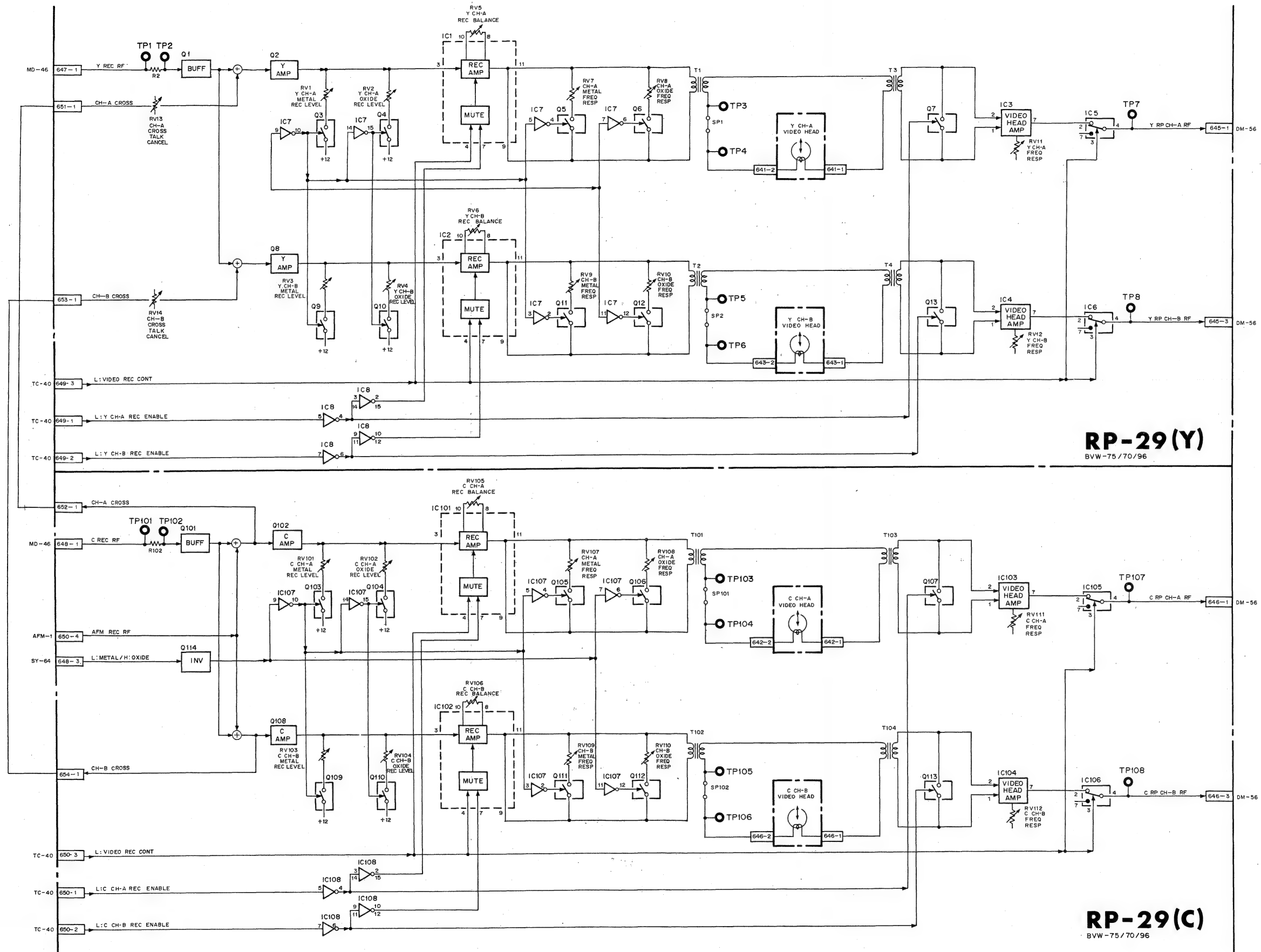




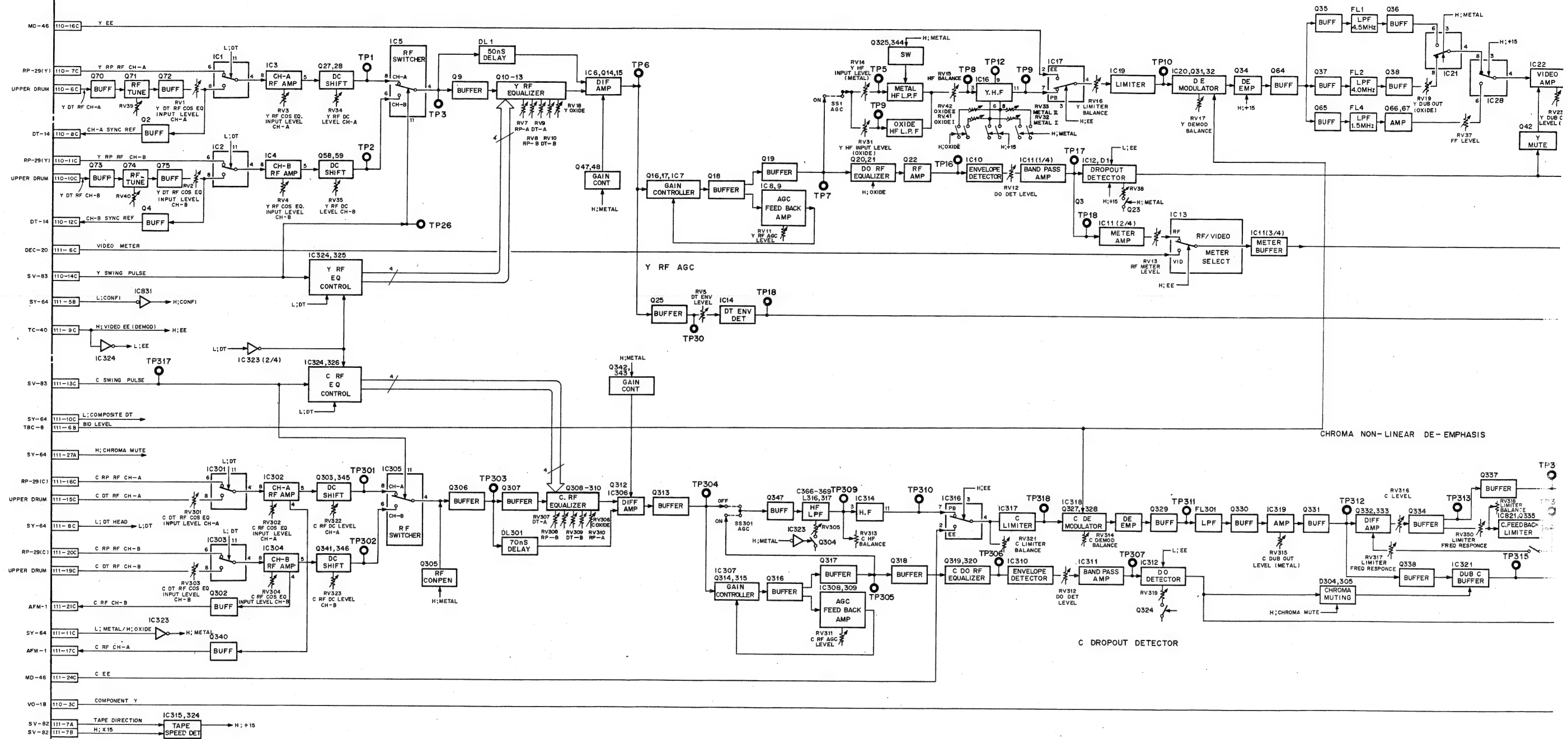
DEC-27

BVW-75
BVW-70
BVW-96

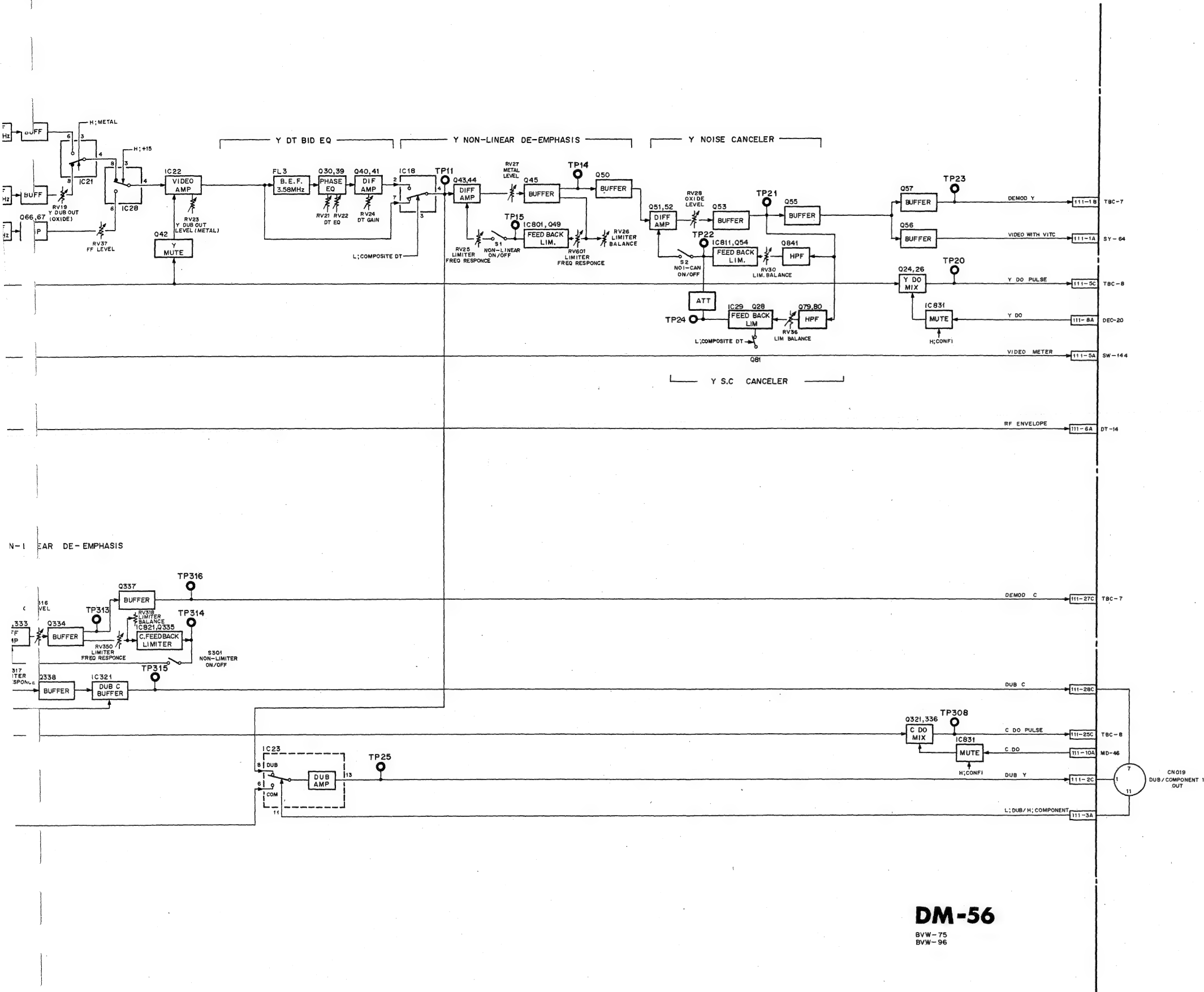
Y/C REC/PB AMPLIFIER



Y/C DEMODULATOR

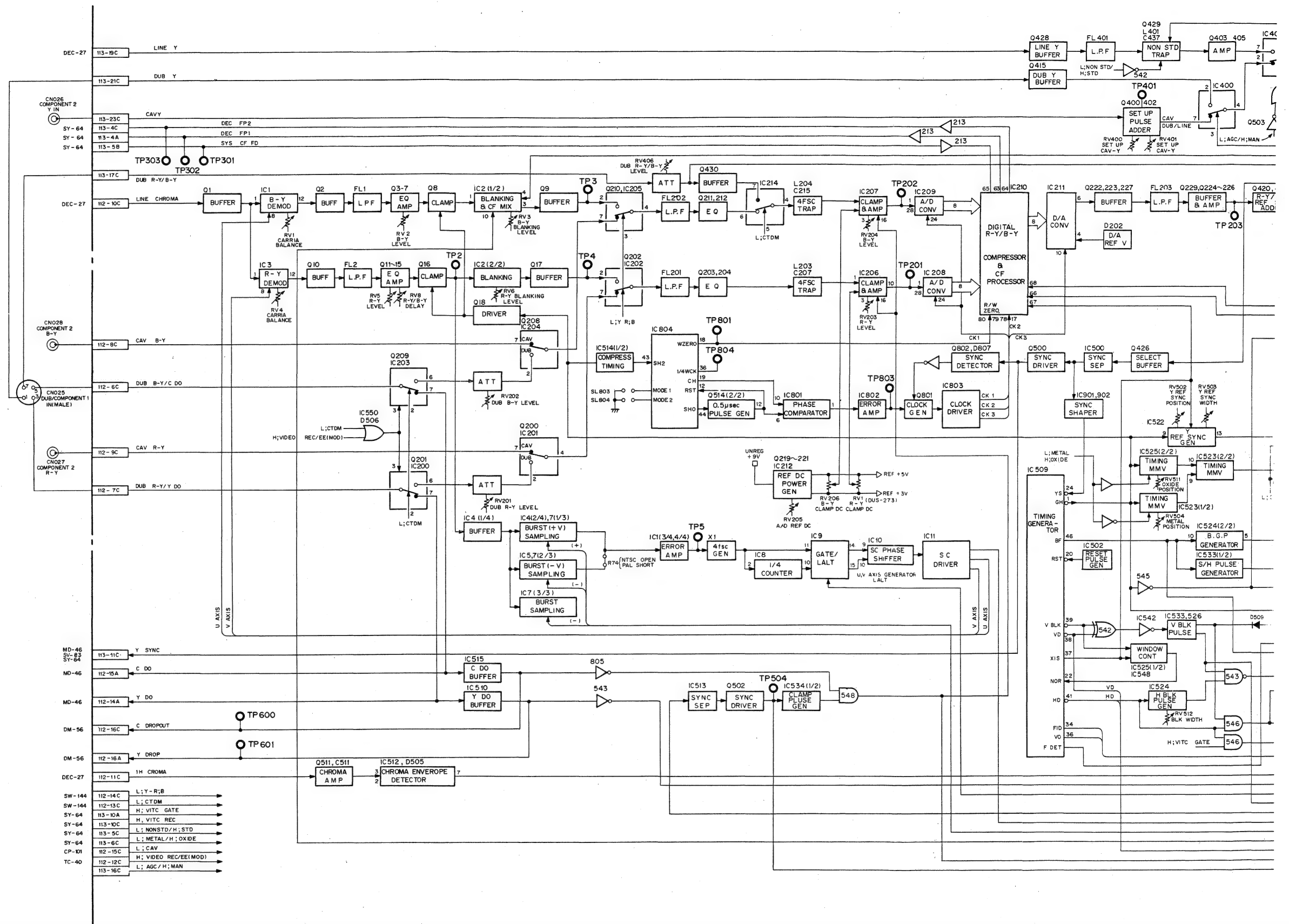


Y/C DEMOD	Y/C DEMOD
-----------	-----------

**DM-56**

BVW-75
BVW-96

DECODER
R-Y/B-Y COMPRESSOR

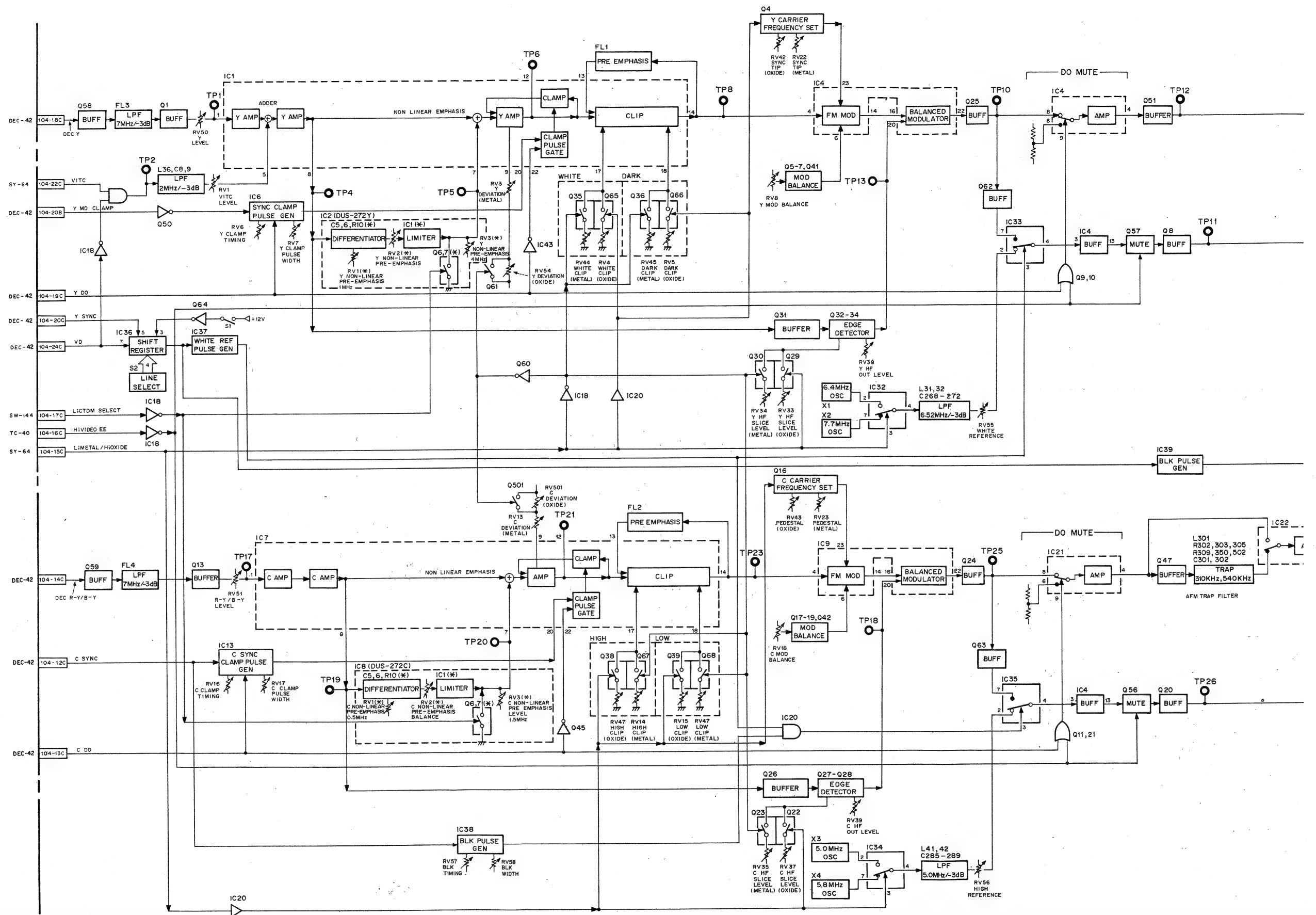


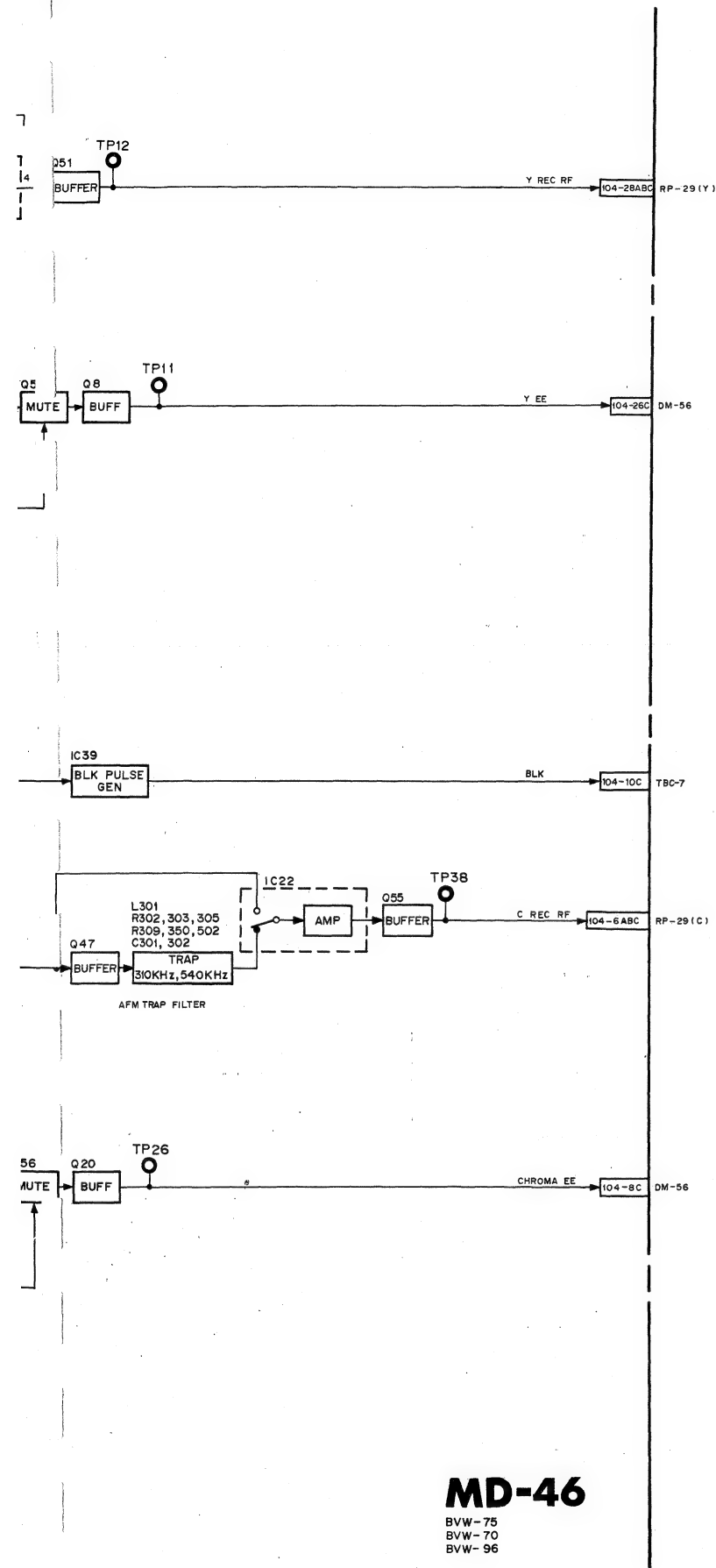


BVW - 75
BVW - 70
BVW - 96

Y/C MODULATOR

Y/C MOD Y/C MOD

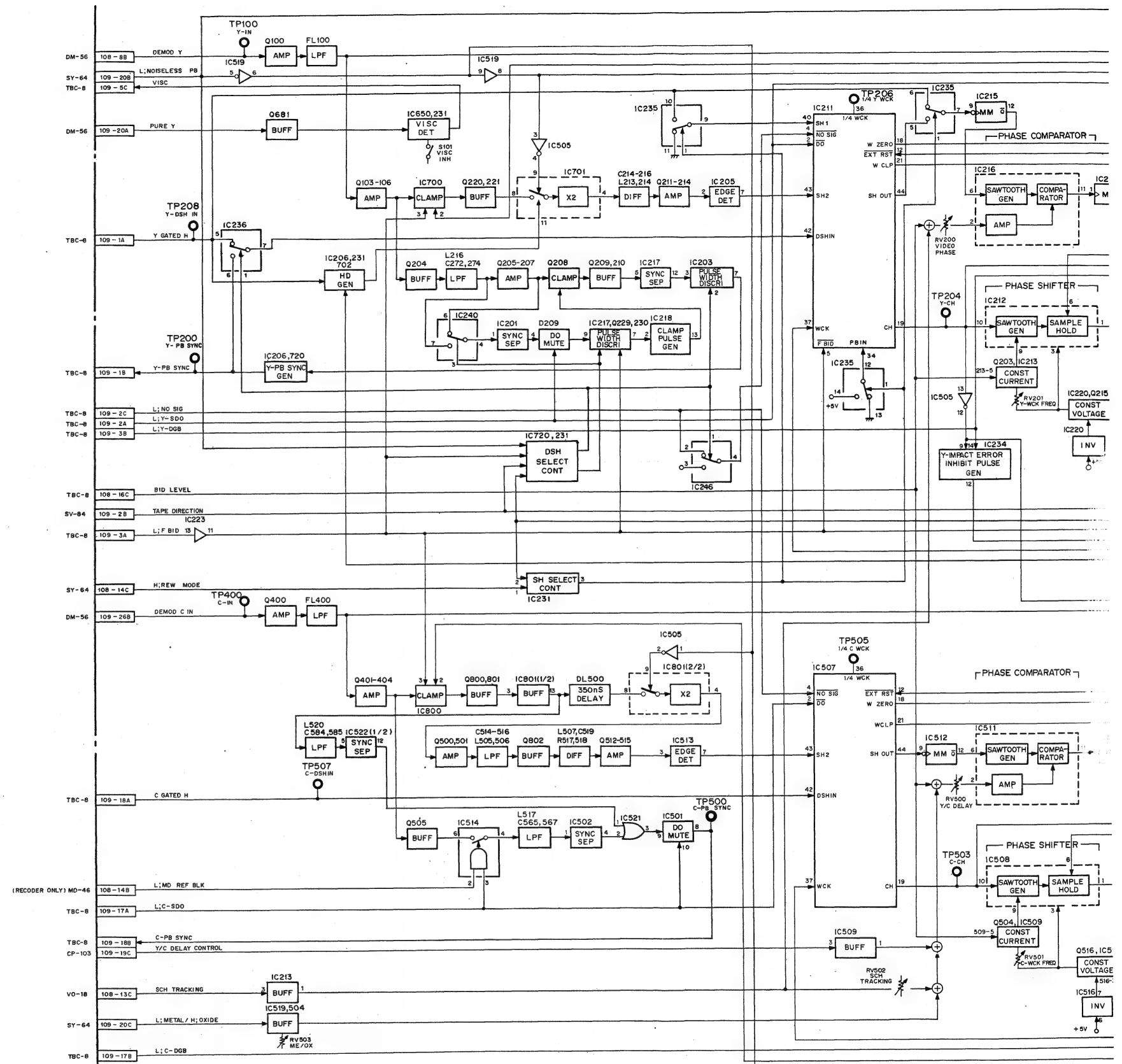




TBC TBC

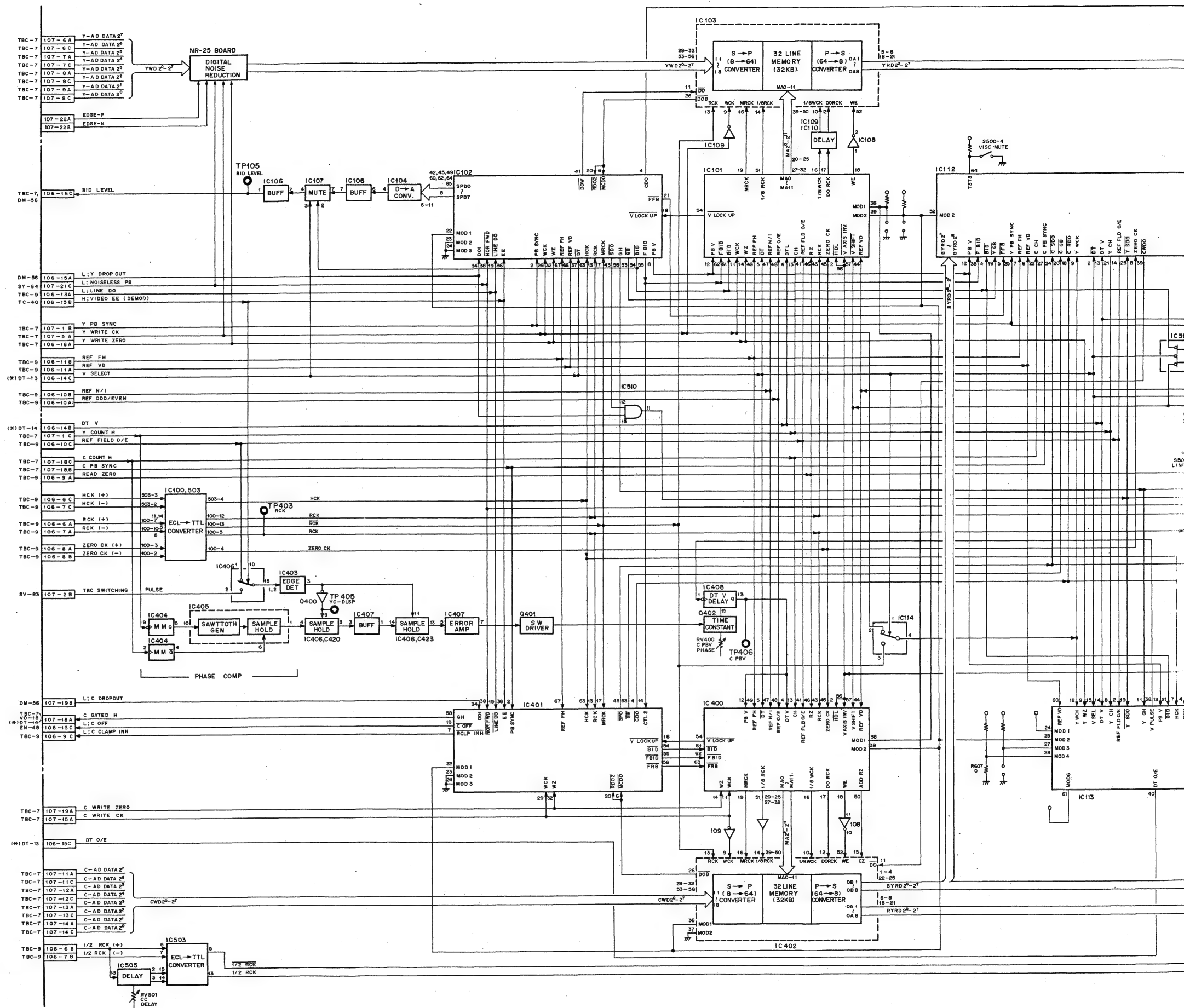
A/D CONVERTER WRITE CLOCK GENERATOR

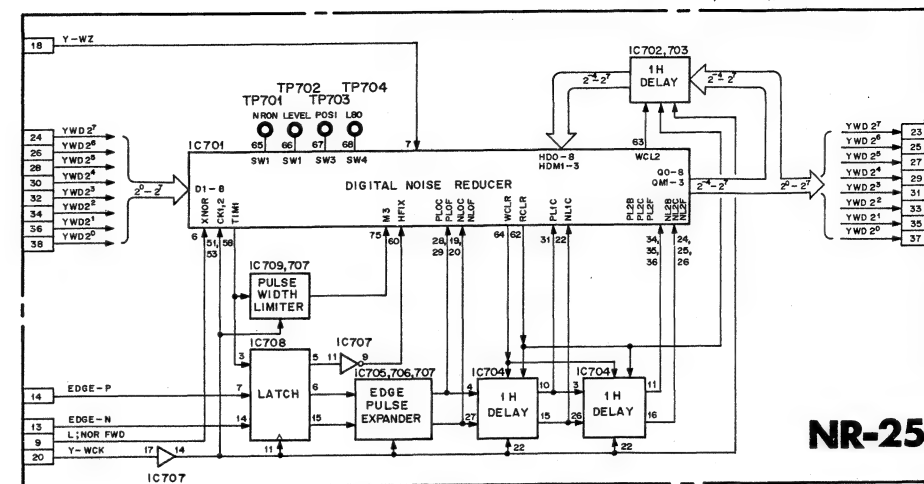
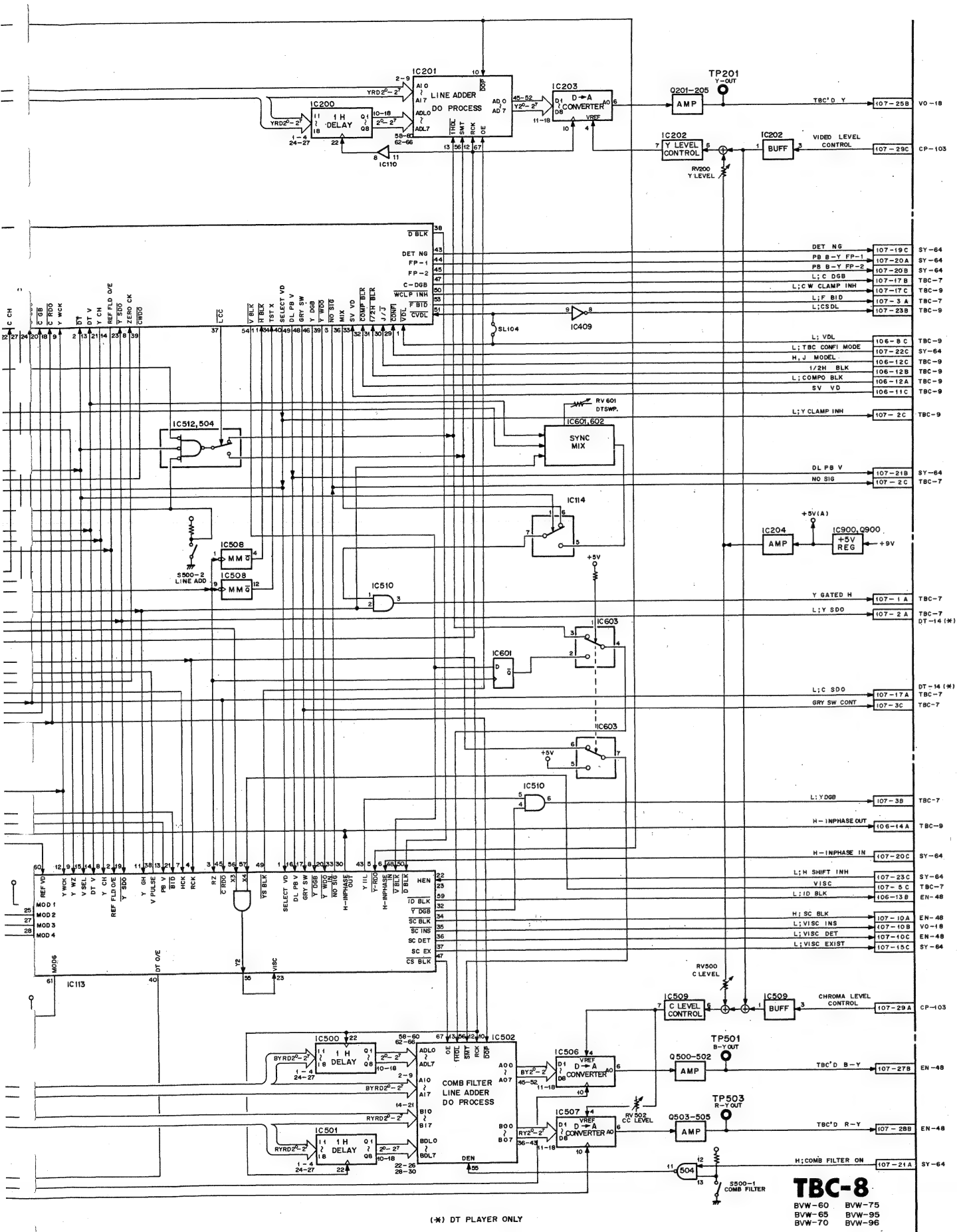
UC ;	S/N 13028	through	13325
J ;	S/N 11104	through	11303





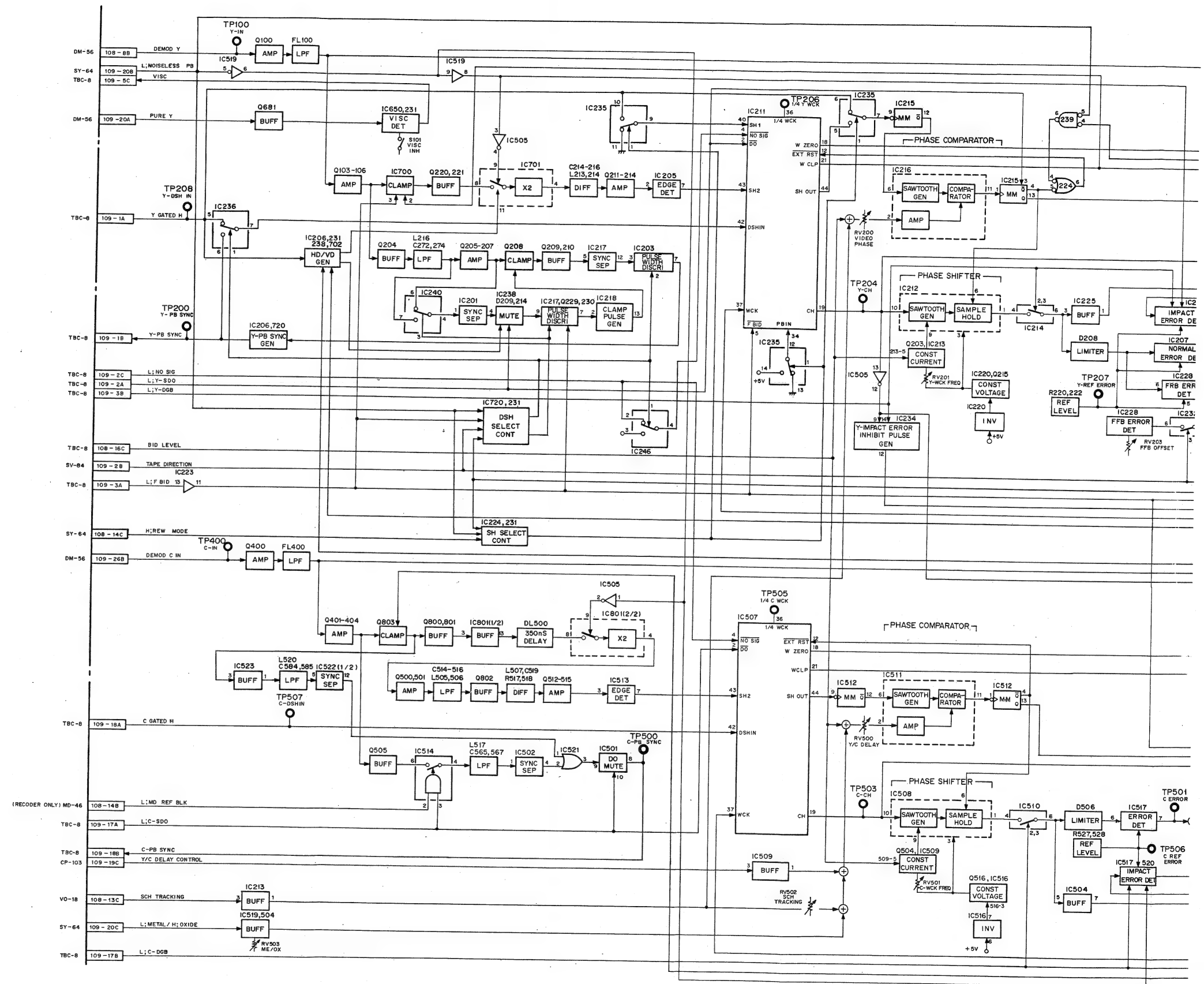
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D/A CONVERTER
Y DIGITAL NOISE REDUCTION

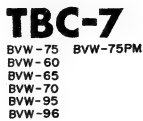




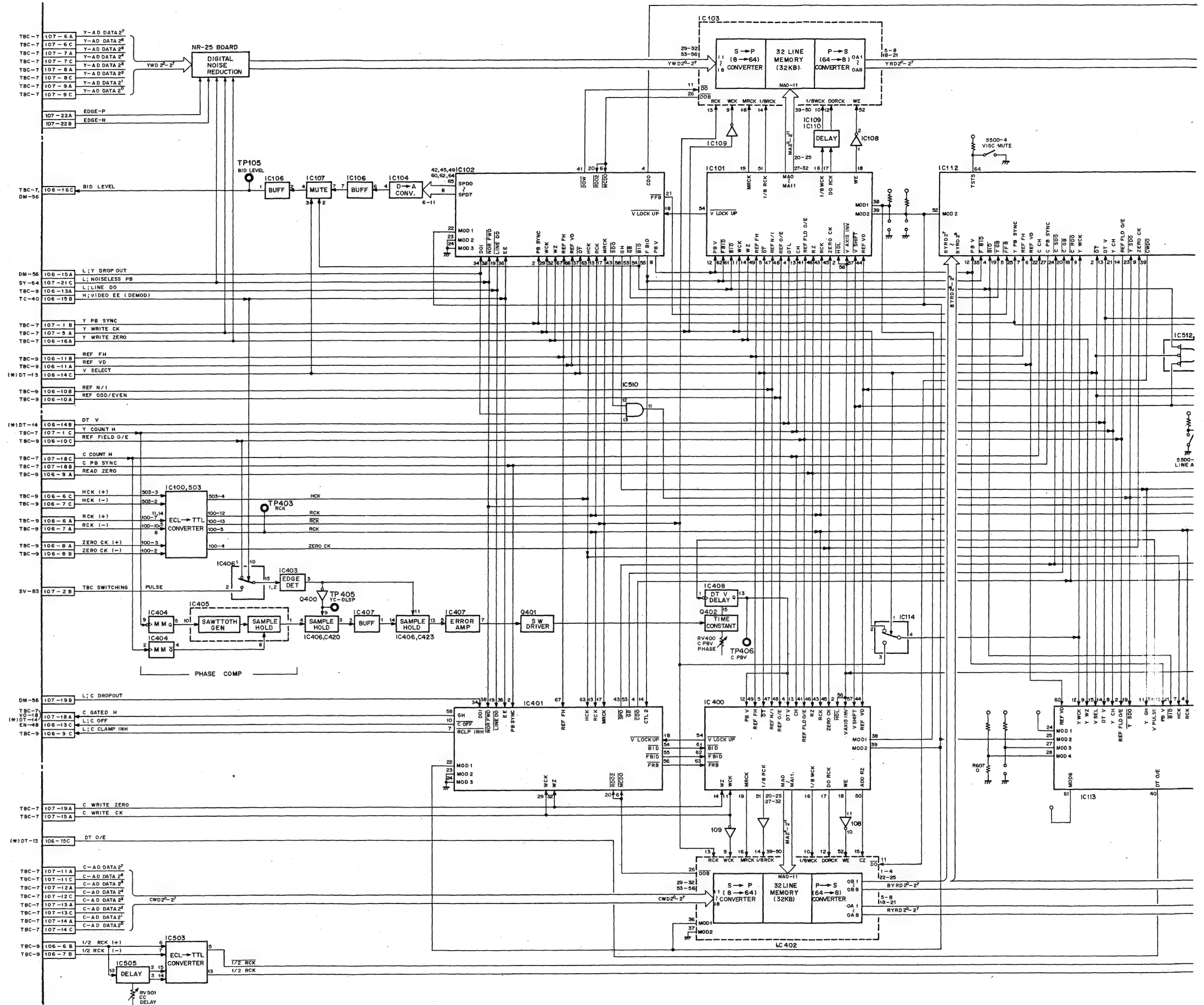
A/D CONVERTER WRITE CLOCK GENERATOR

UC ; S/N 13326 and higher
J ; S/N 11304 and higher



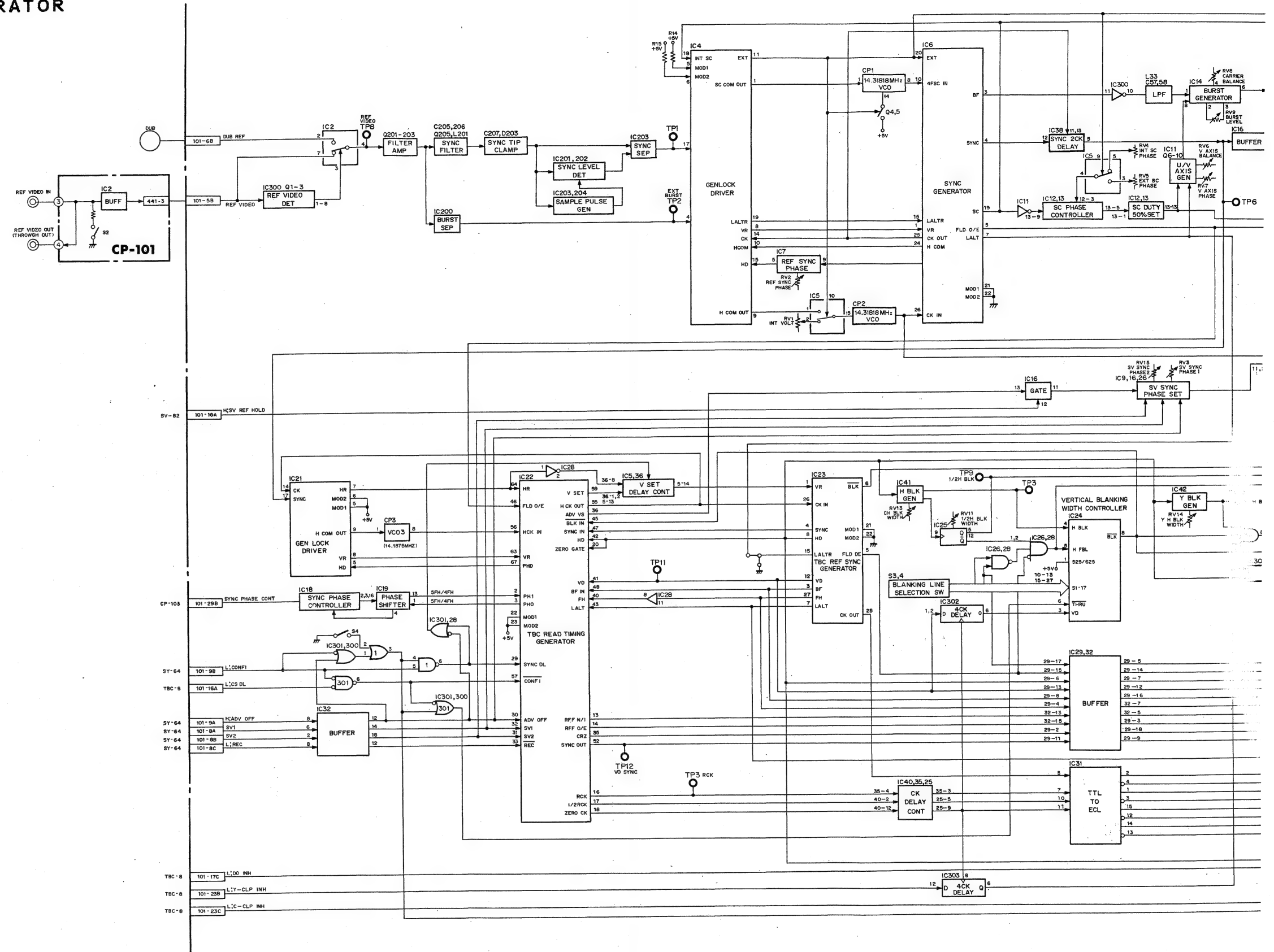


MAIN MEMORY
D/A CONVERTER
Y DIGITAL NOISE REDUCTION





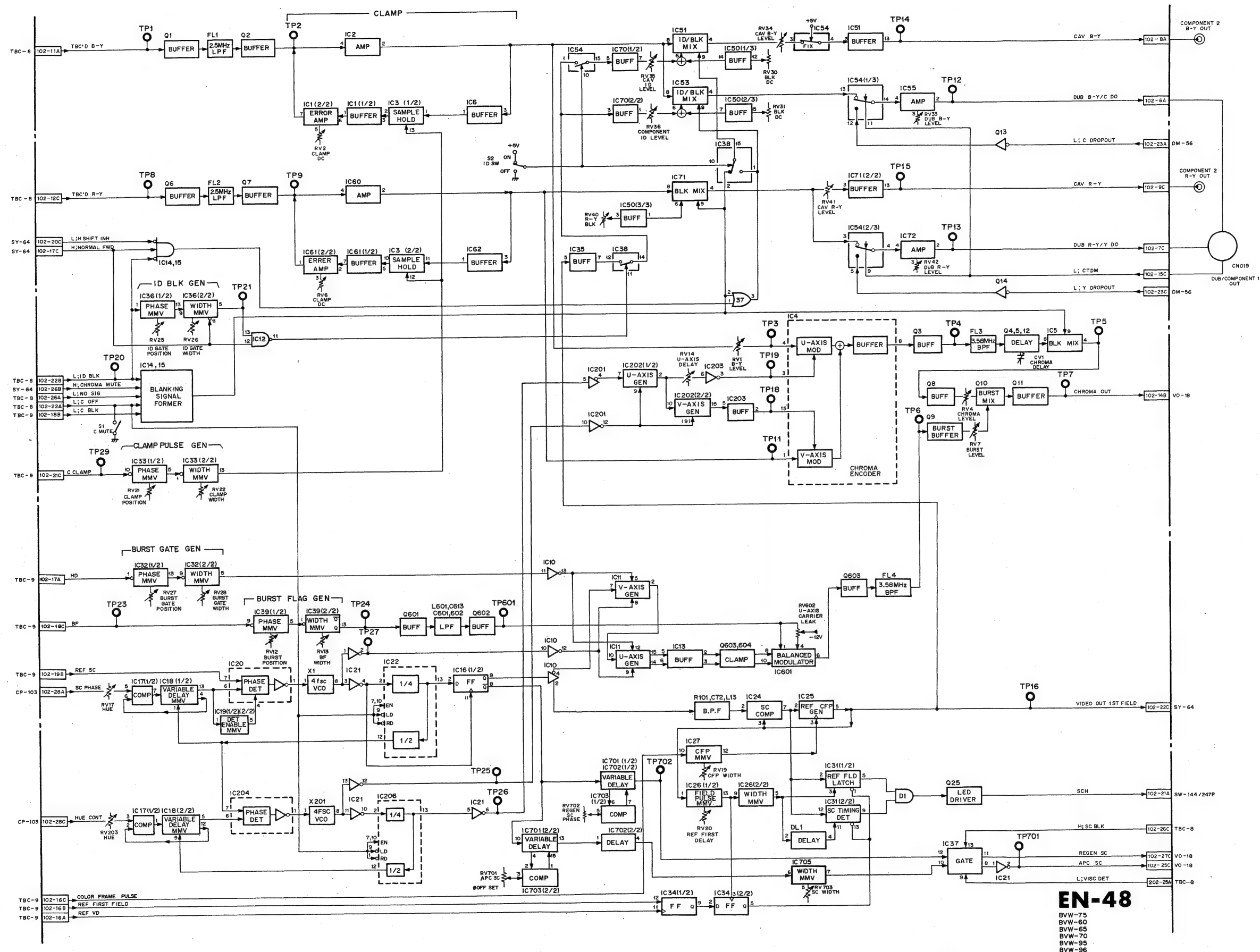
REF SIGNAL/ TIMING GENERATOR





BVW - 60	BVW - 75
BVW - 65	BVW - 95
BVW - 70	BVW - 96

ENCODER

**EN-48**

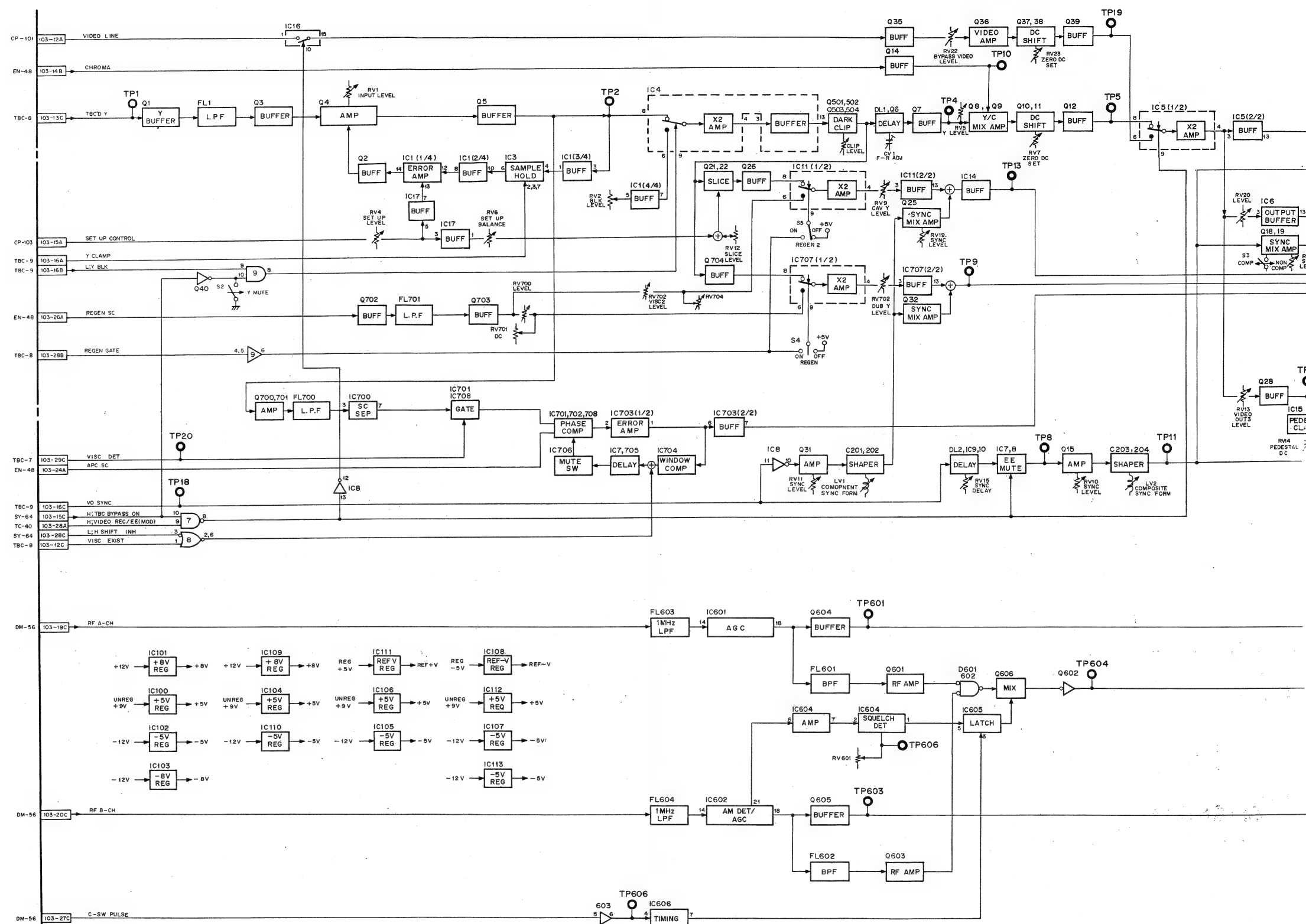
BVW-75
BVW-60
BVW-65
BVW-70
BVW-95
BVW-96

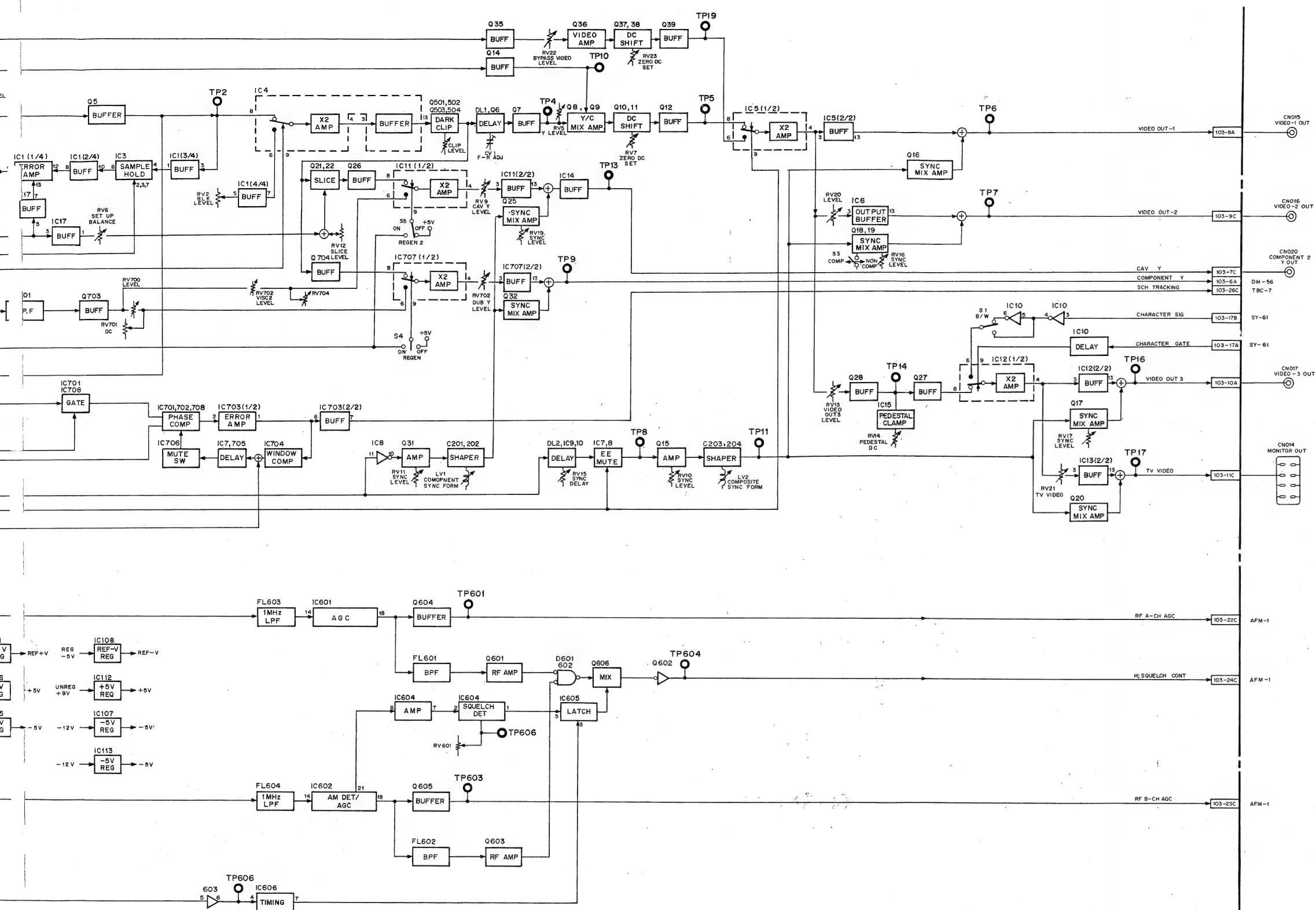
ENCODER	ENCODER
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BVW-75
 BVW-60
 BVW-65
 BVW-70
 BVW-95
 BVW-96

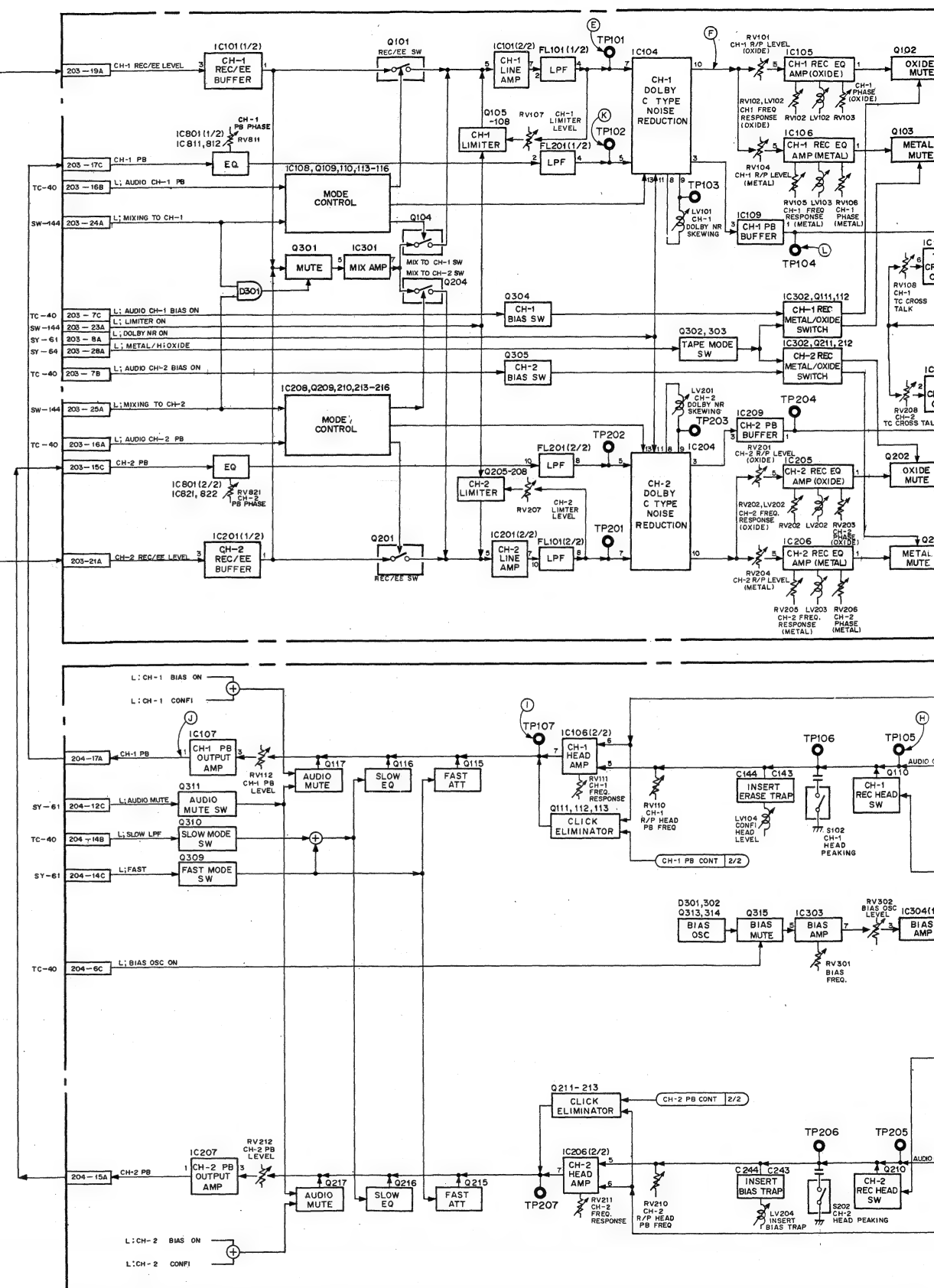
VIDEO OUTPUT VIDEO OUTPUT



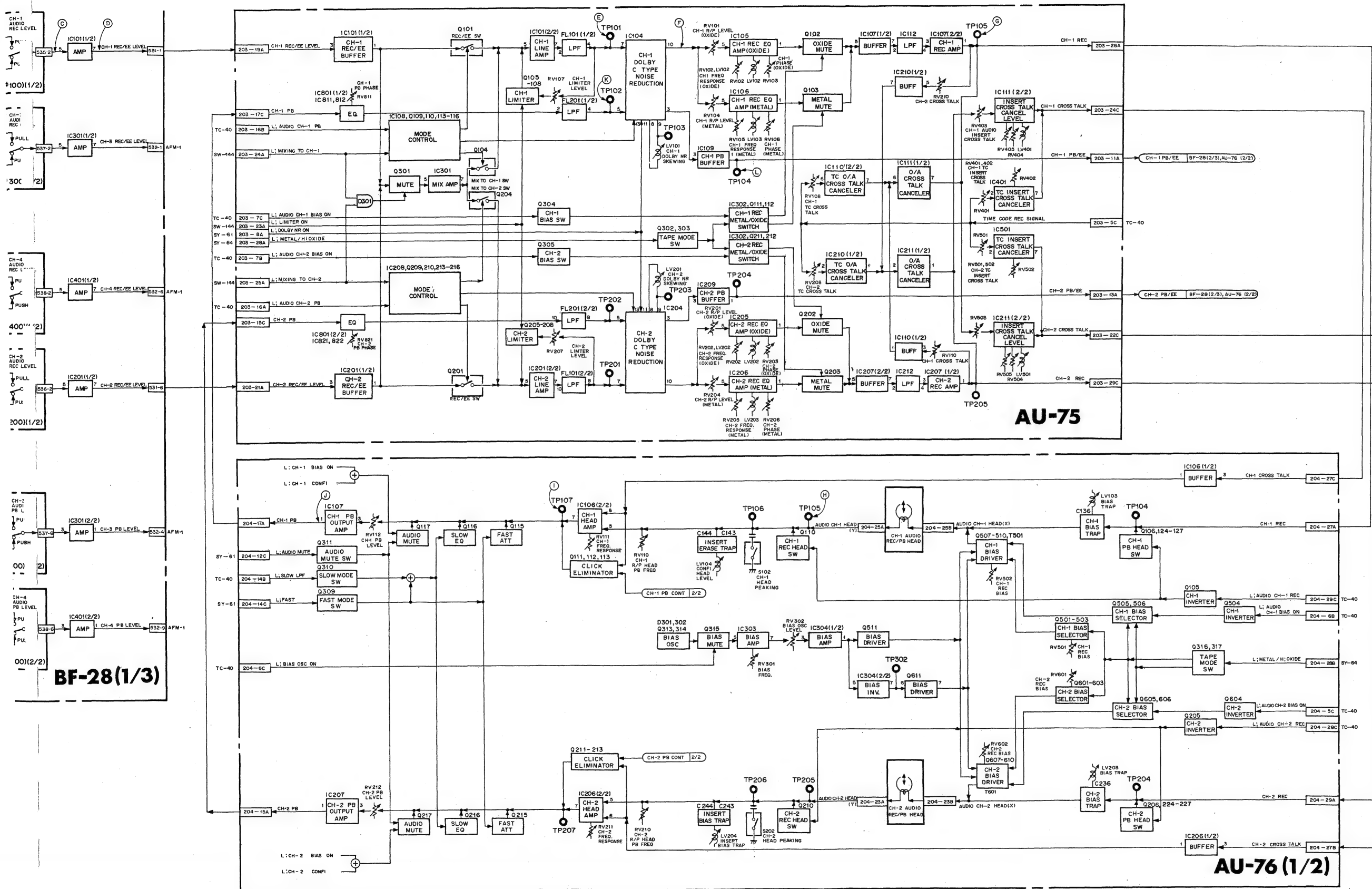


VO-18

BVW-75
BVW-70
BVW-96



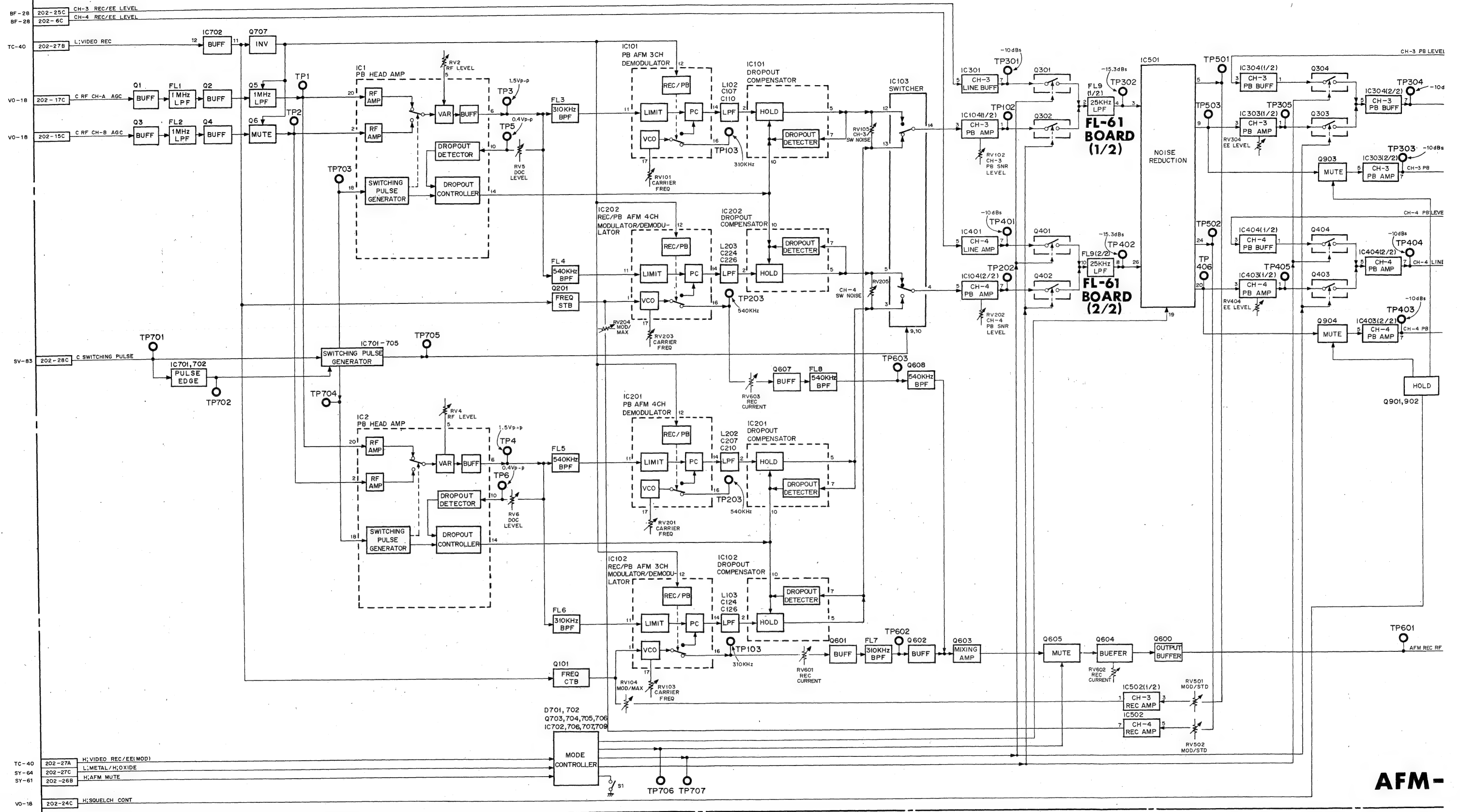
LNG AUDIO LNG AUDIO

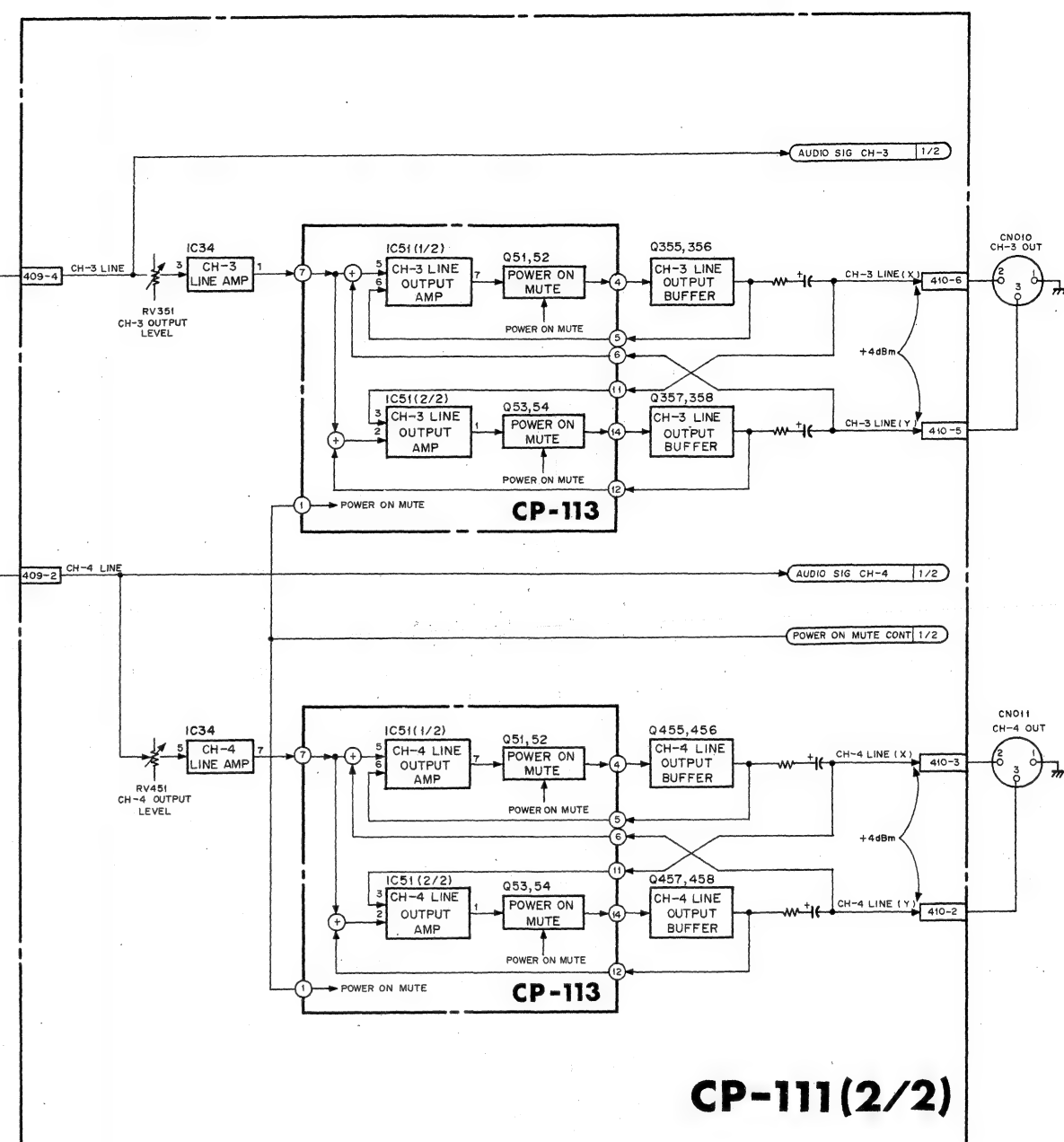
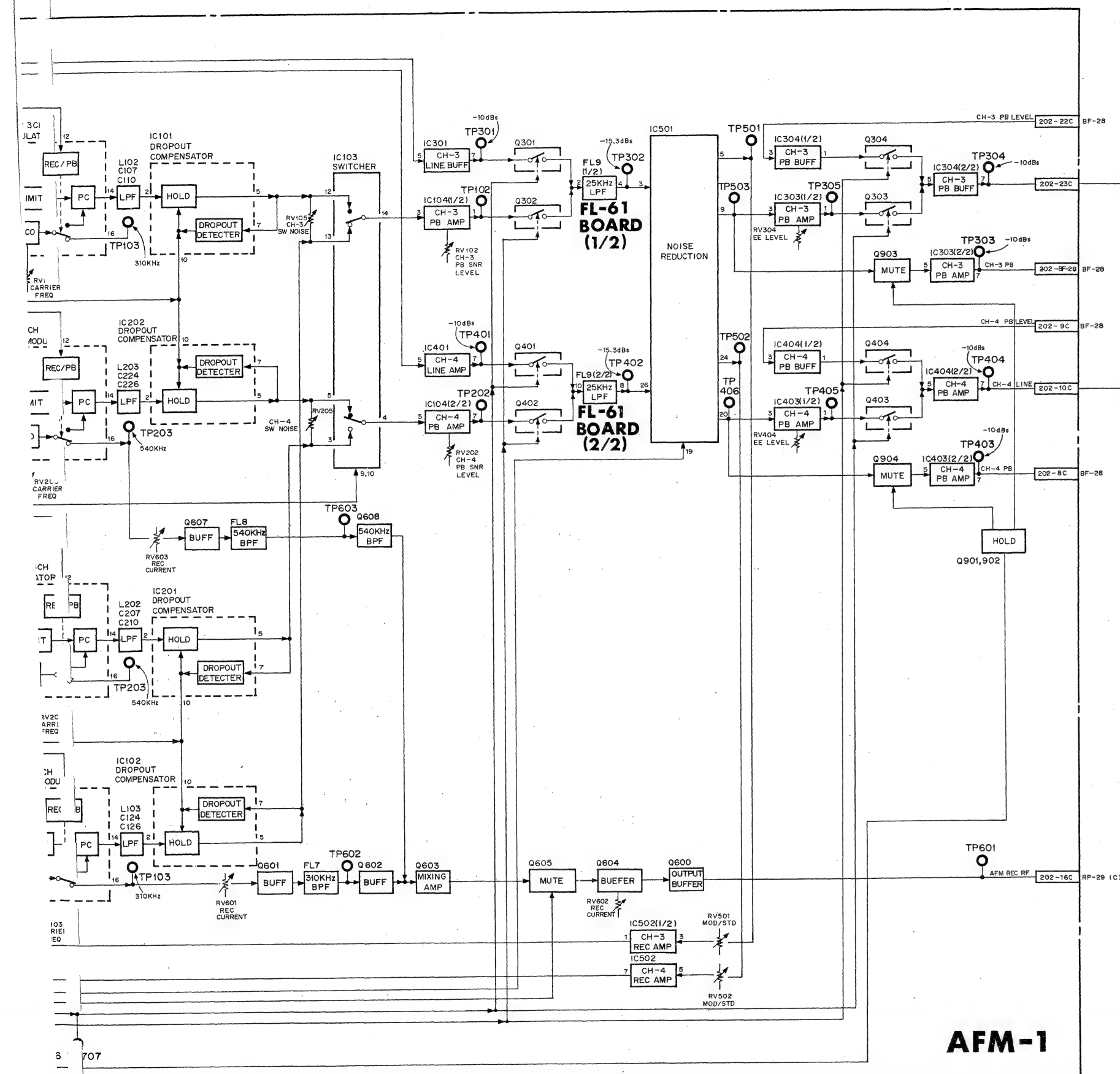






AFM AUDIO

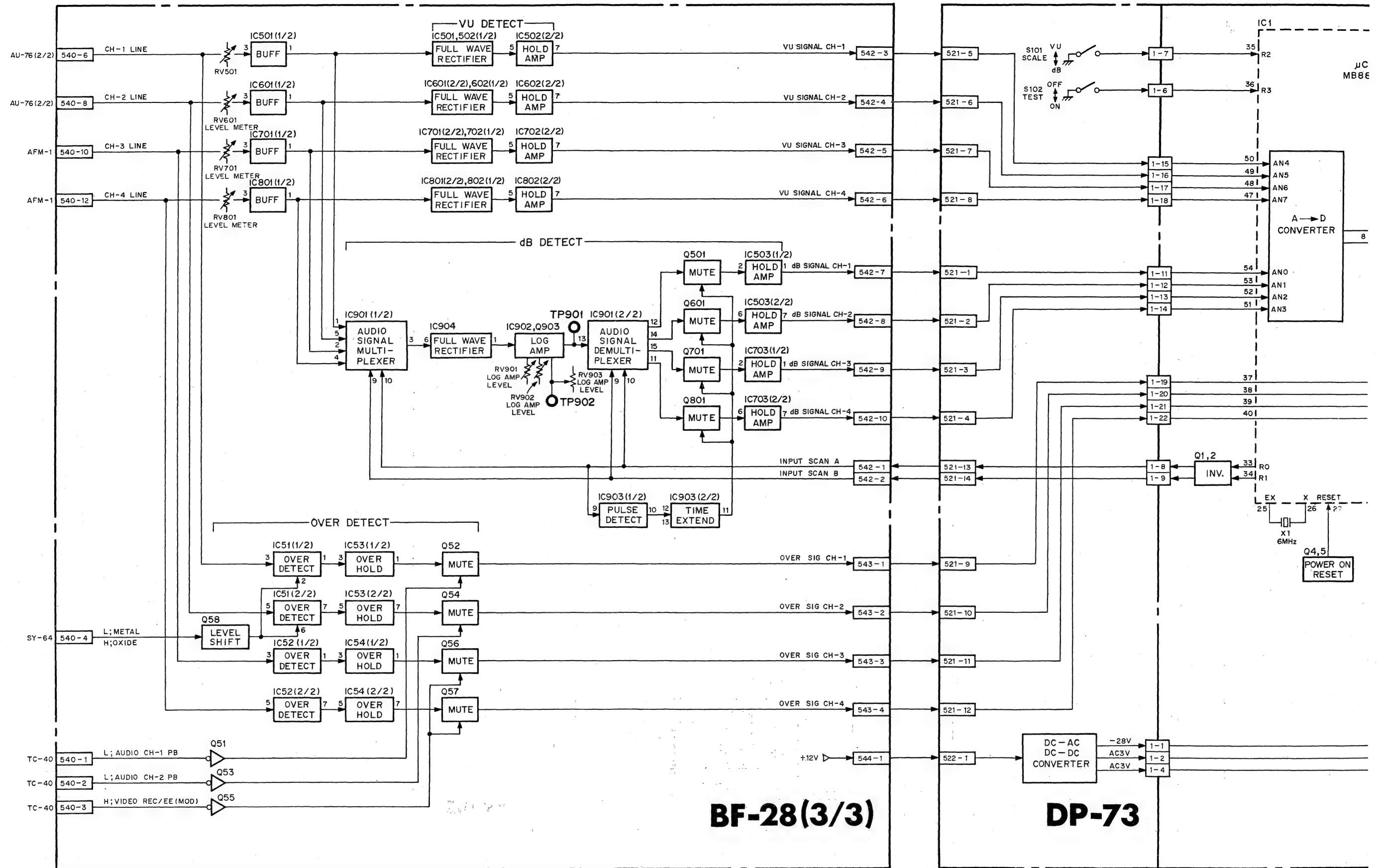


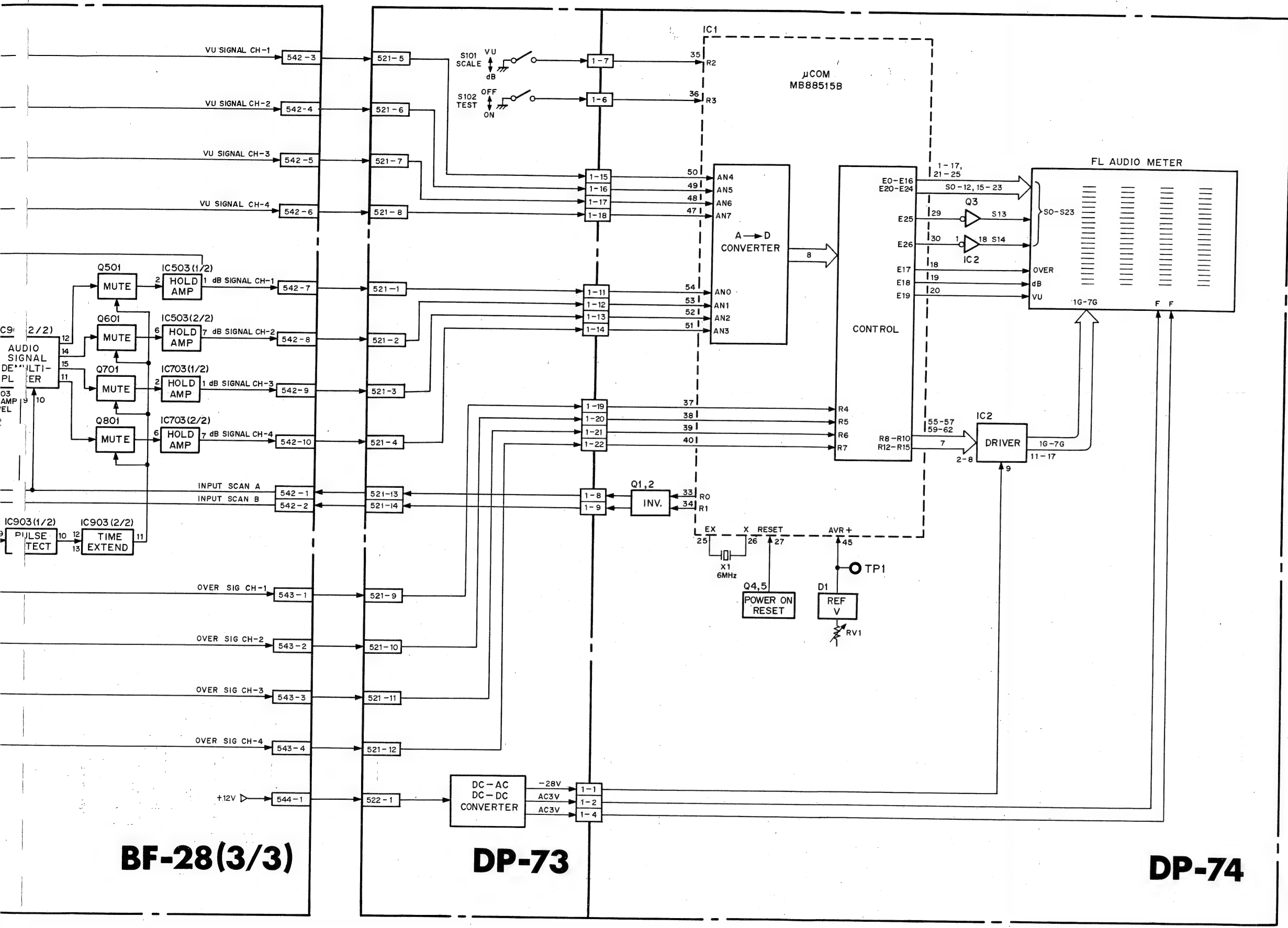


AFM AUDIO

BVW-70
BVW-75
BVW-96

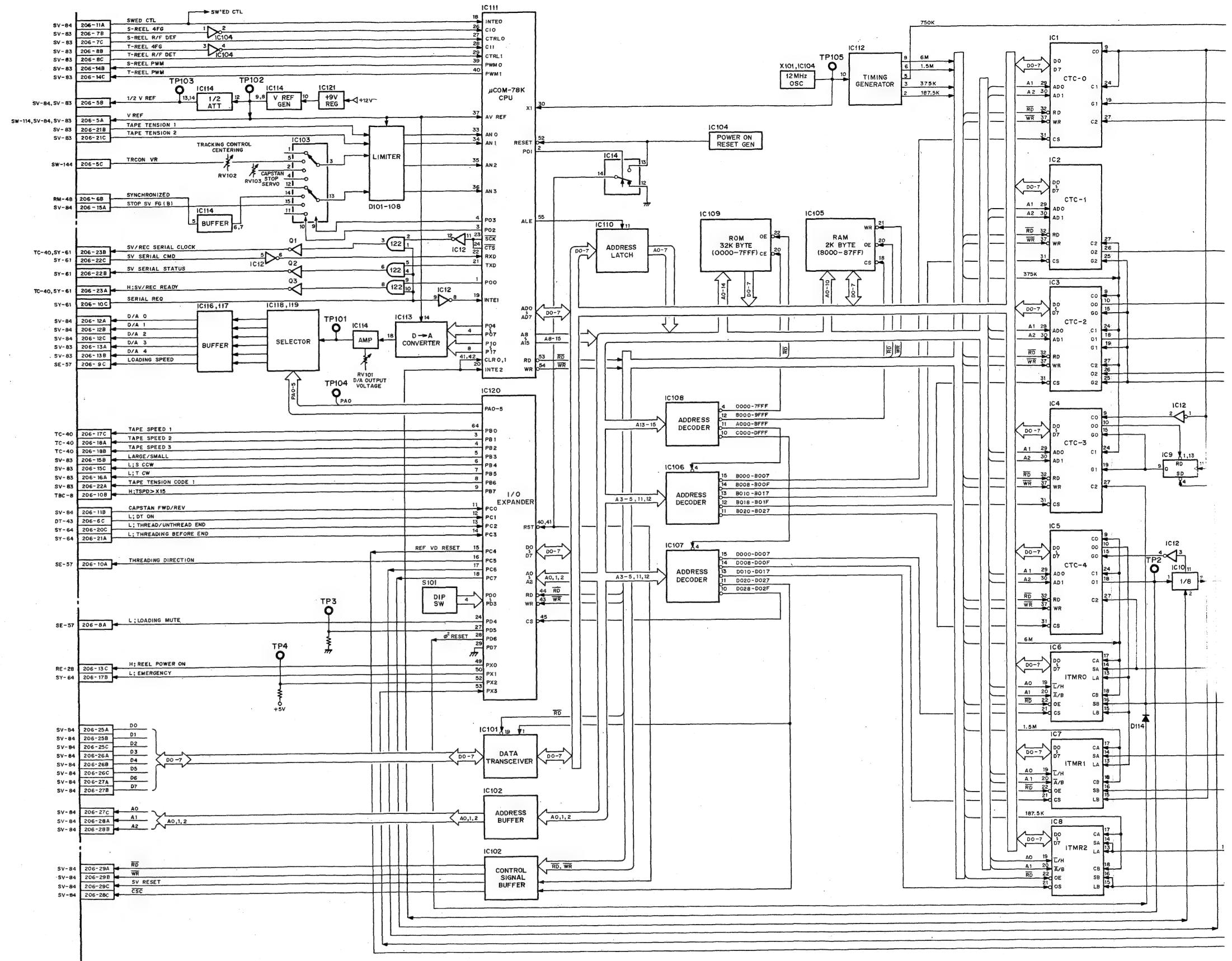
AUDIO LEVEL METER

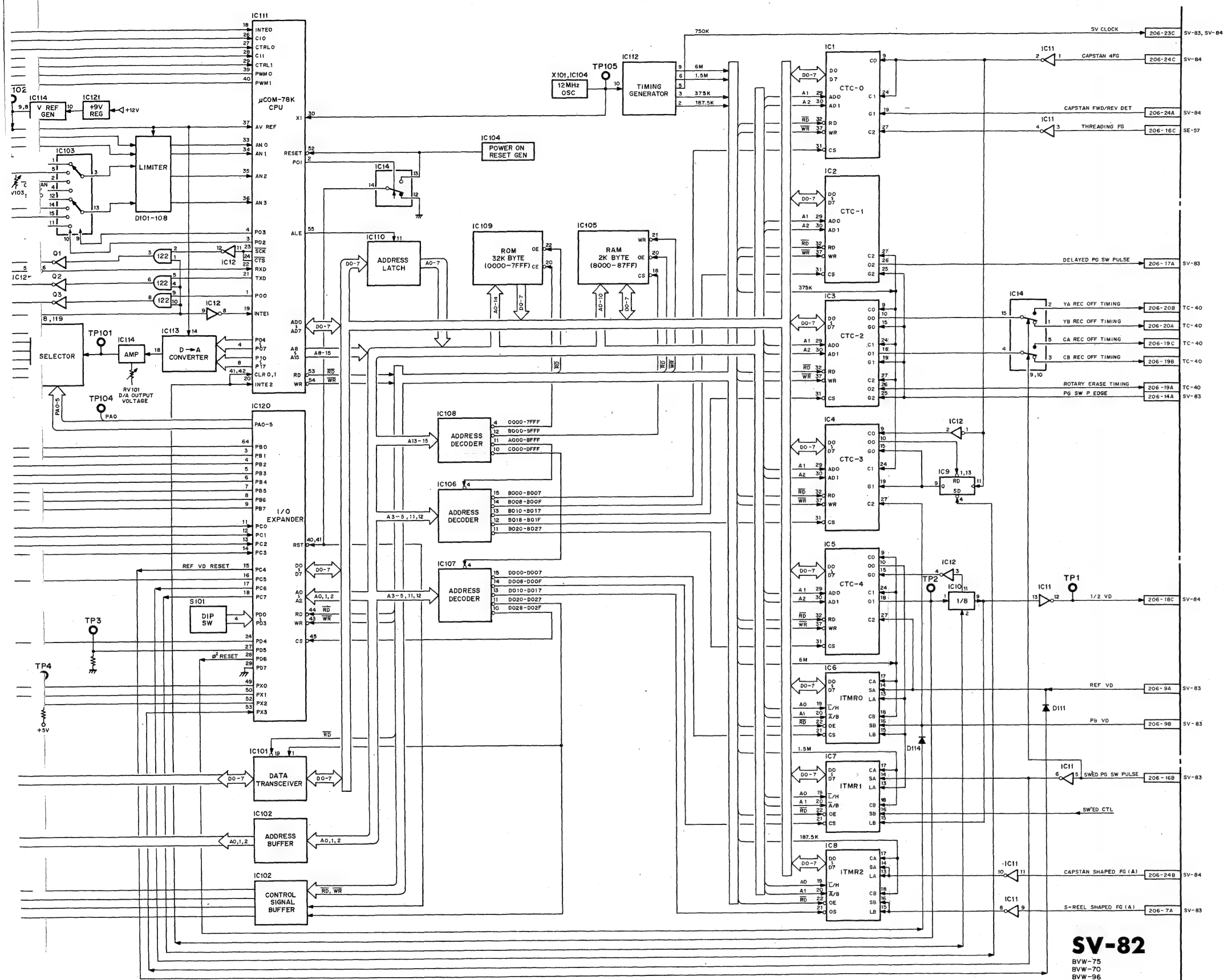




AUDIO LEVEL METER
BVW-75
BVW-70
BVW-96

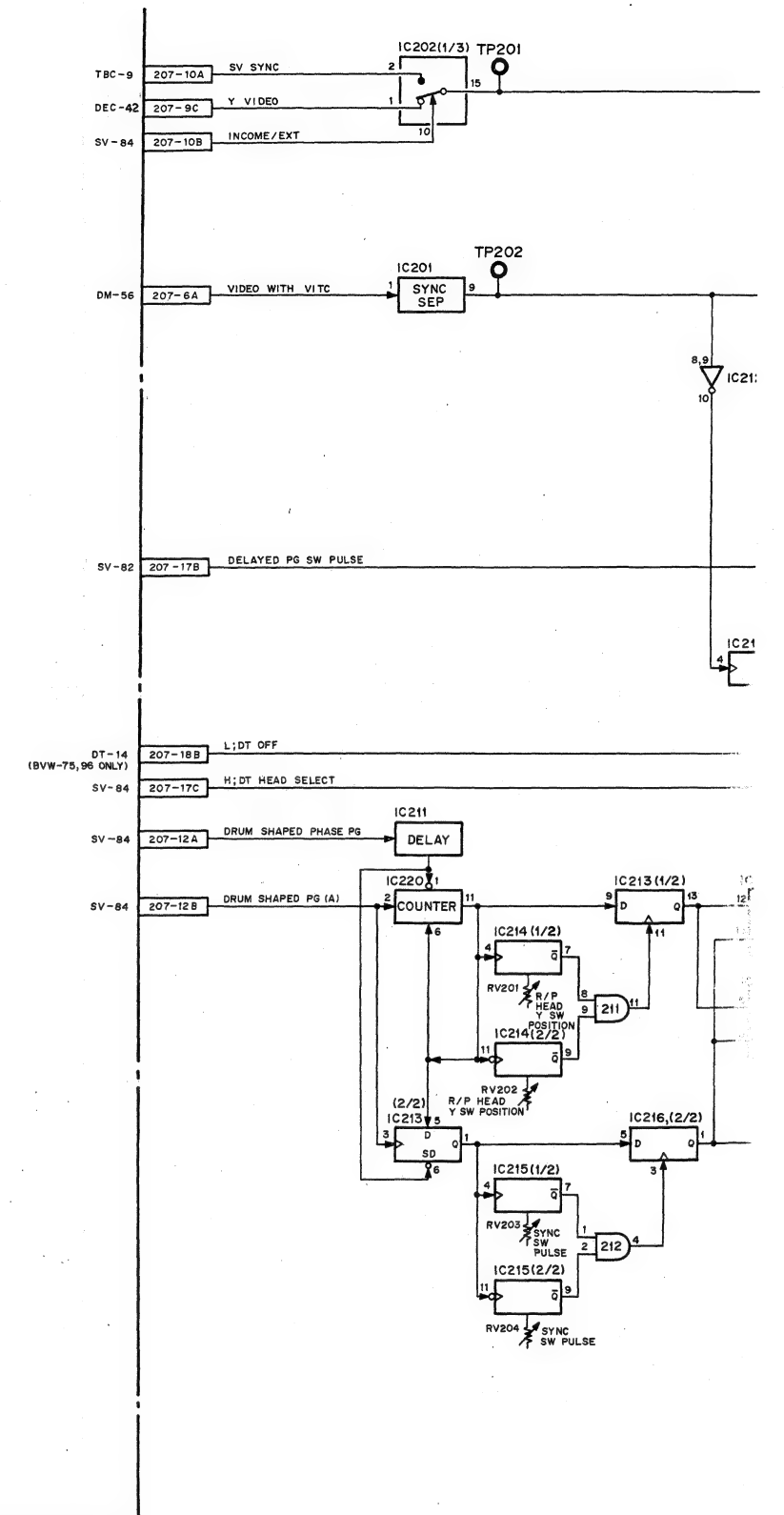
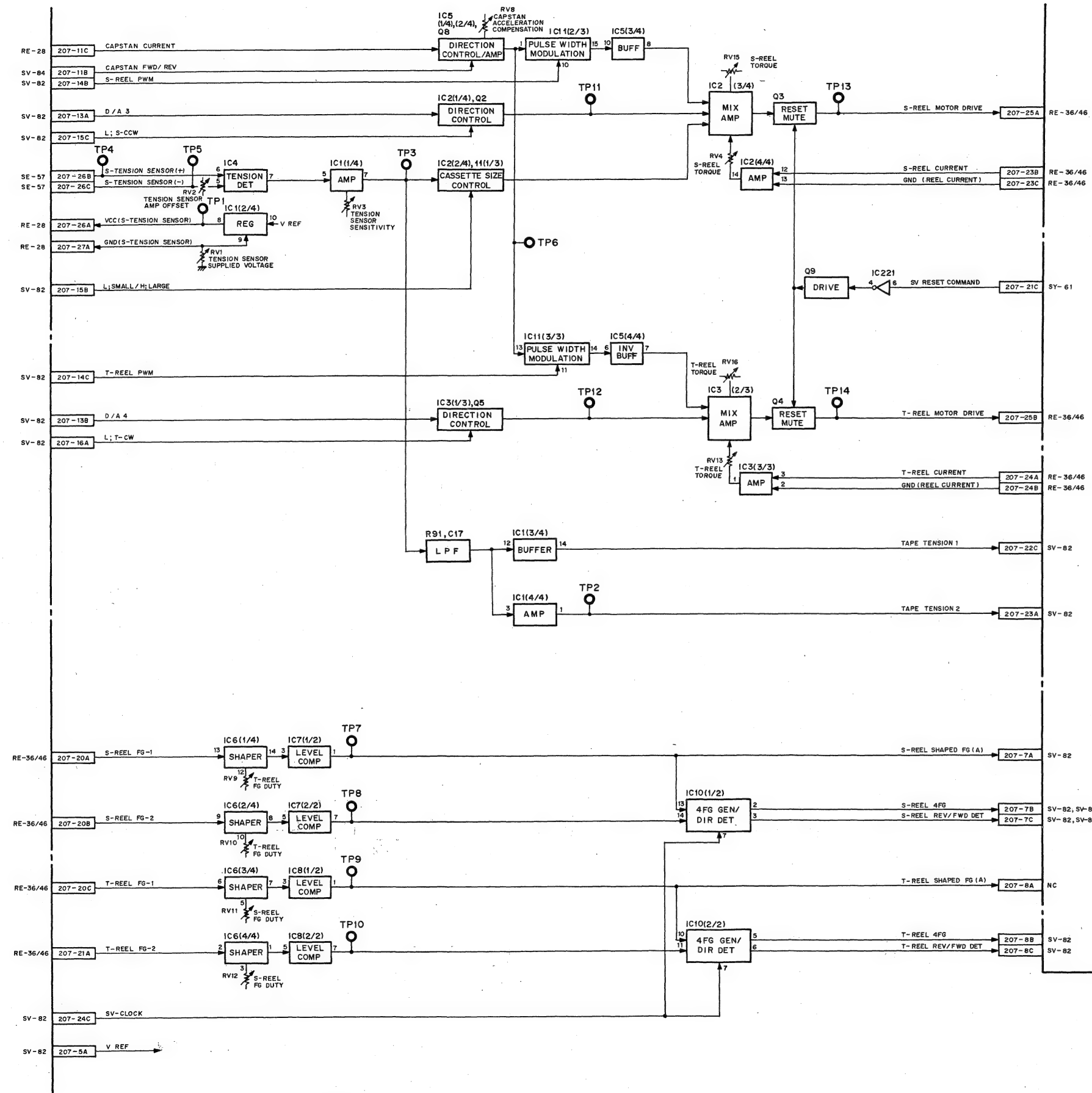
MICROCOMPUTER SERVO SYSTEM

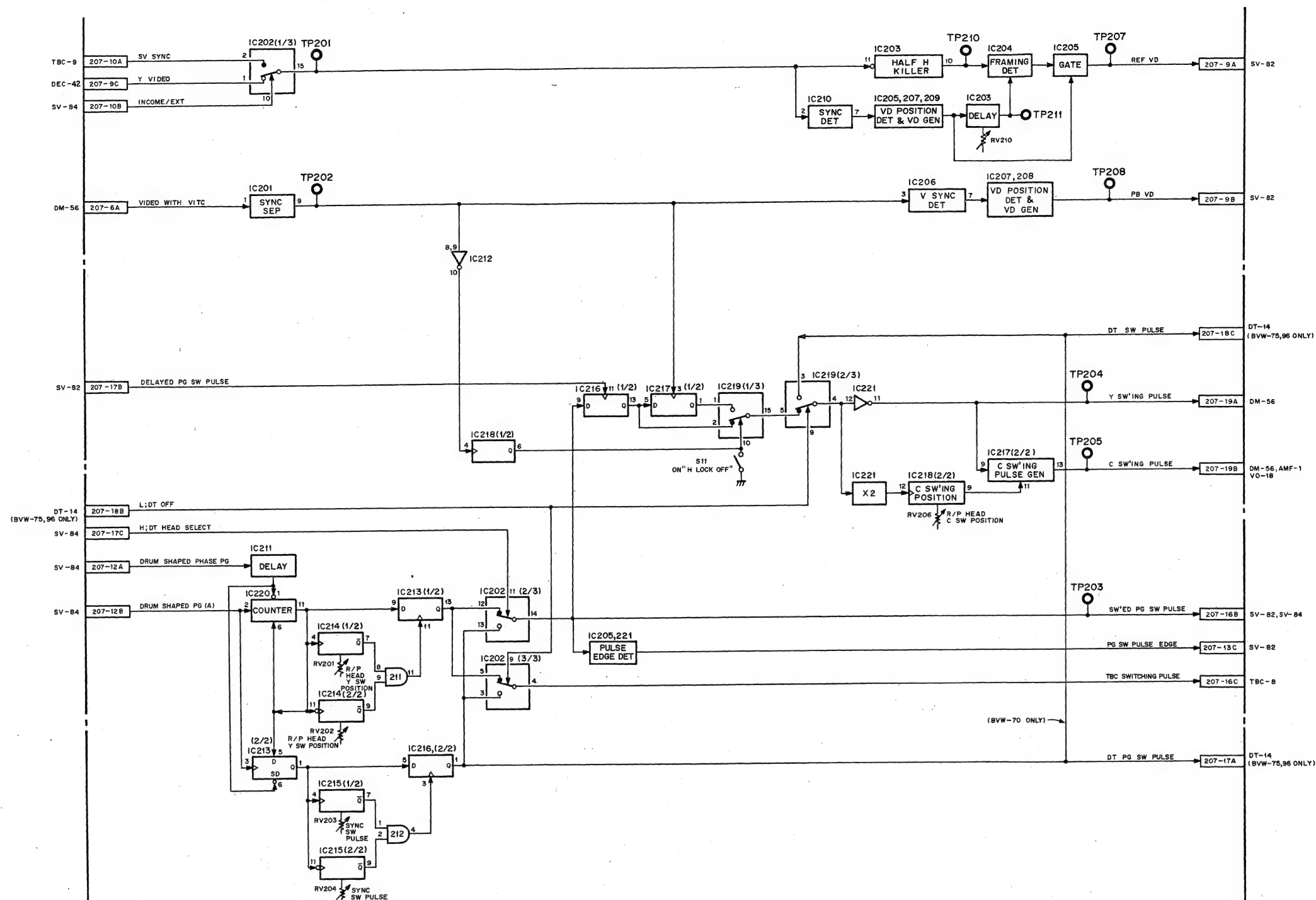
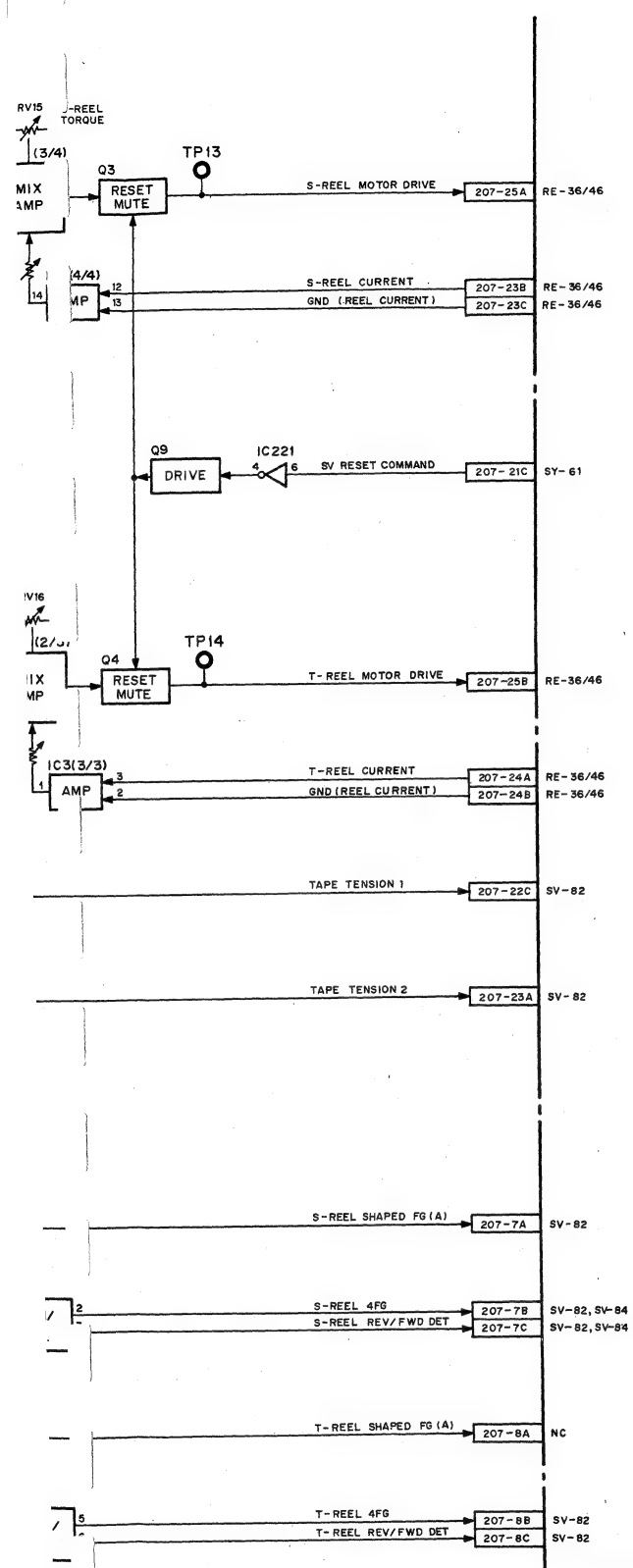




SV-82
BVW-75
BVW-70
BVW-96

REEL SERVO

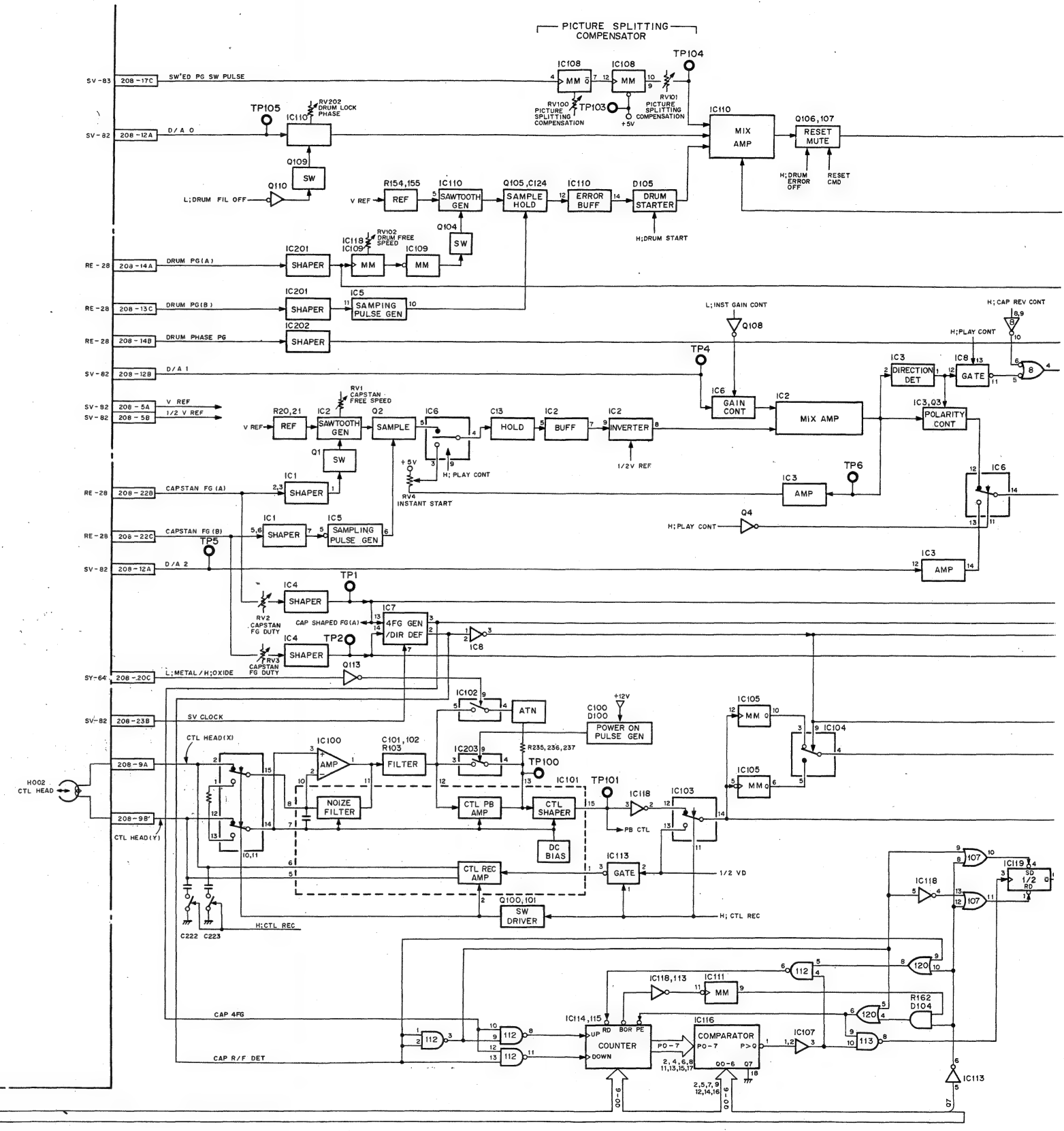
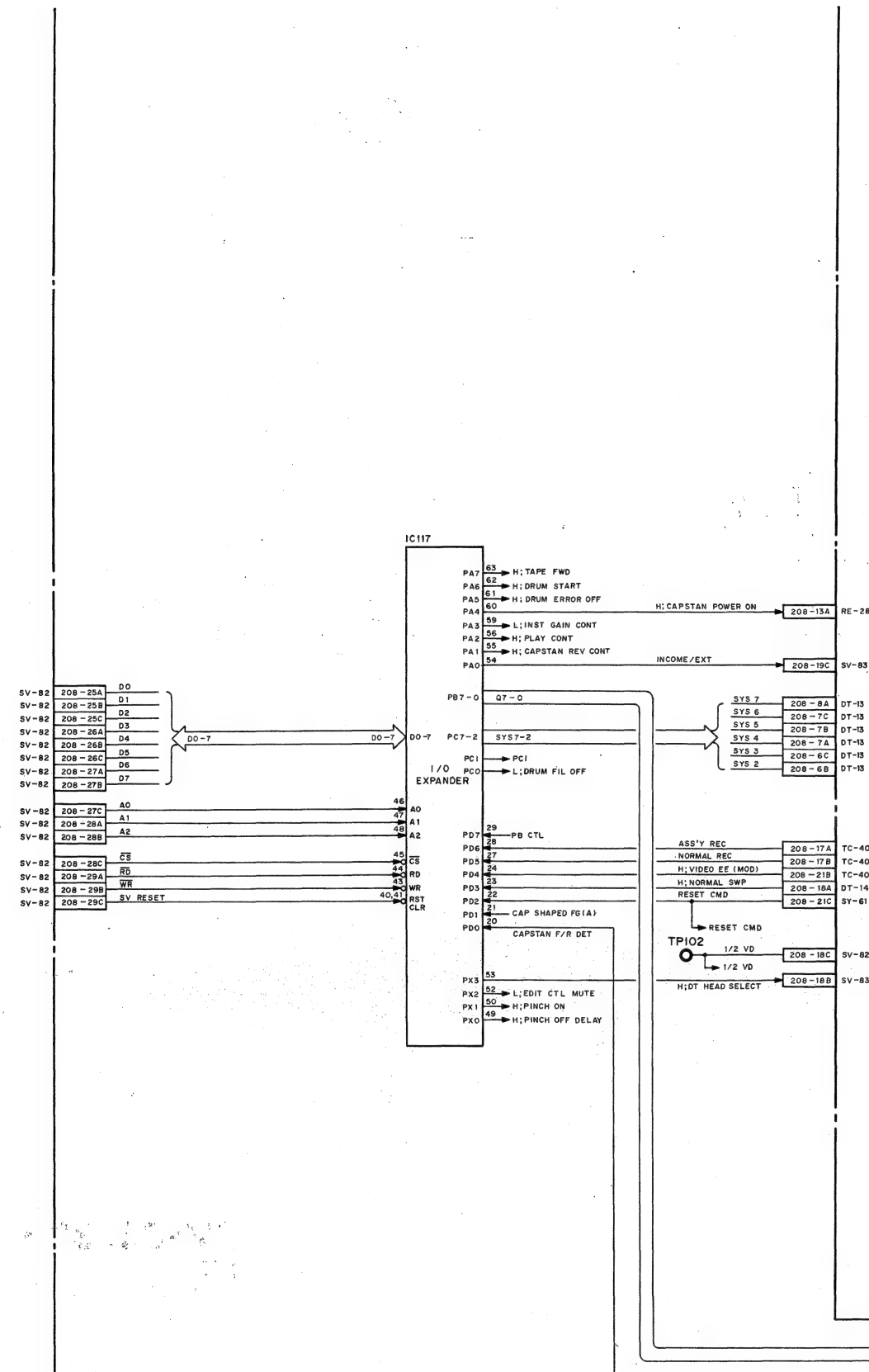




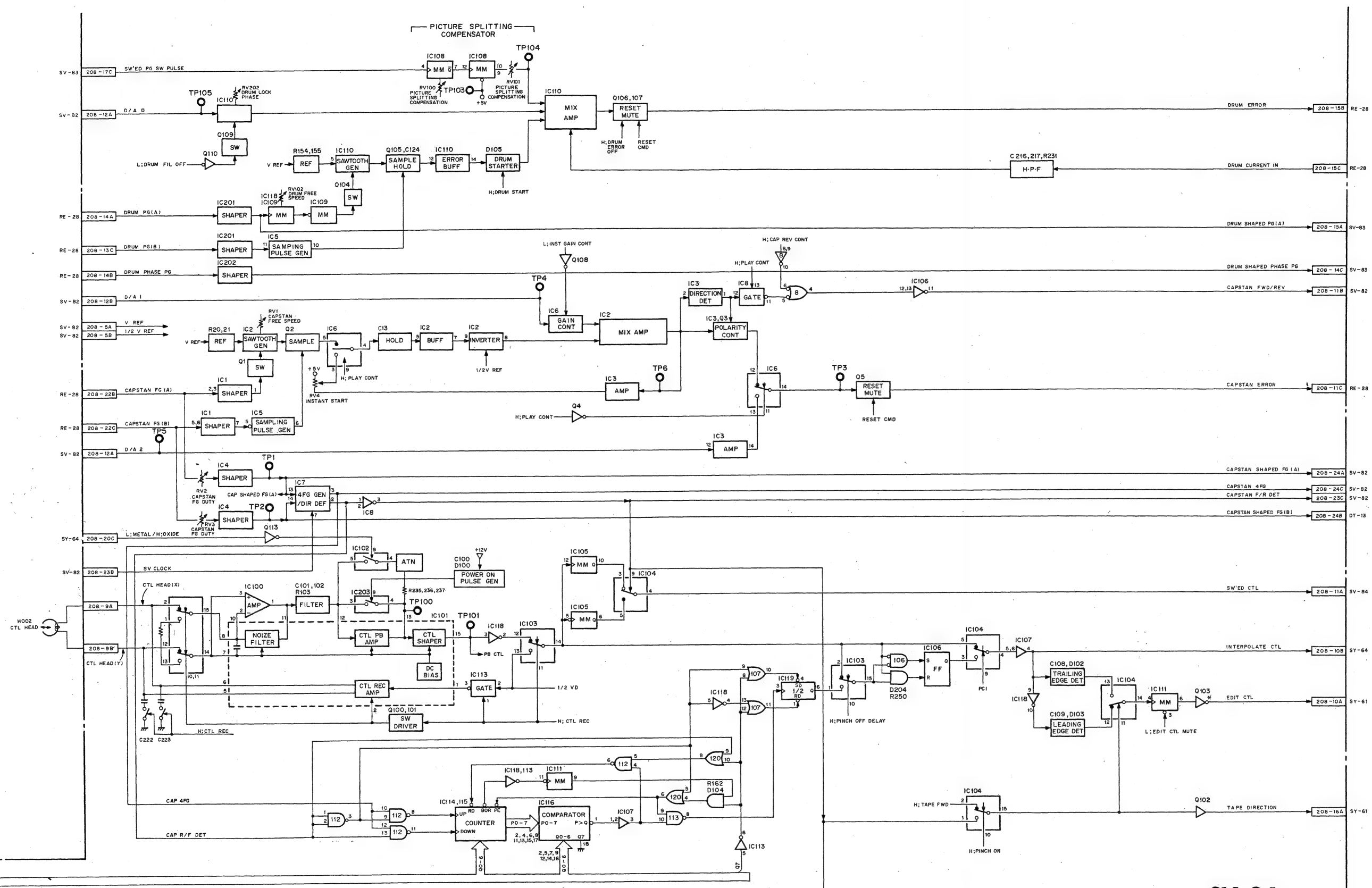
SV-83/83A

BVW-75 ---- SV-83
 BVW-70 ---- SV-83A
 BVW-96 ---- SV-83

DRUM/CAPSTAN SERVO



DRUM/CAPSTAN SERVO DRUM/CAPSTAN SERVO



SV-84

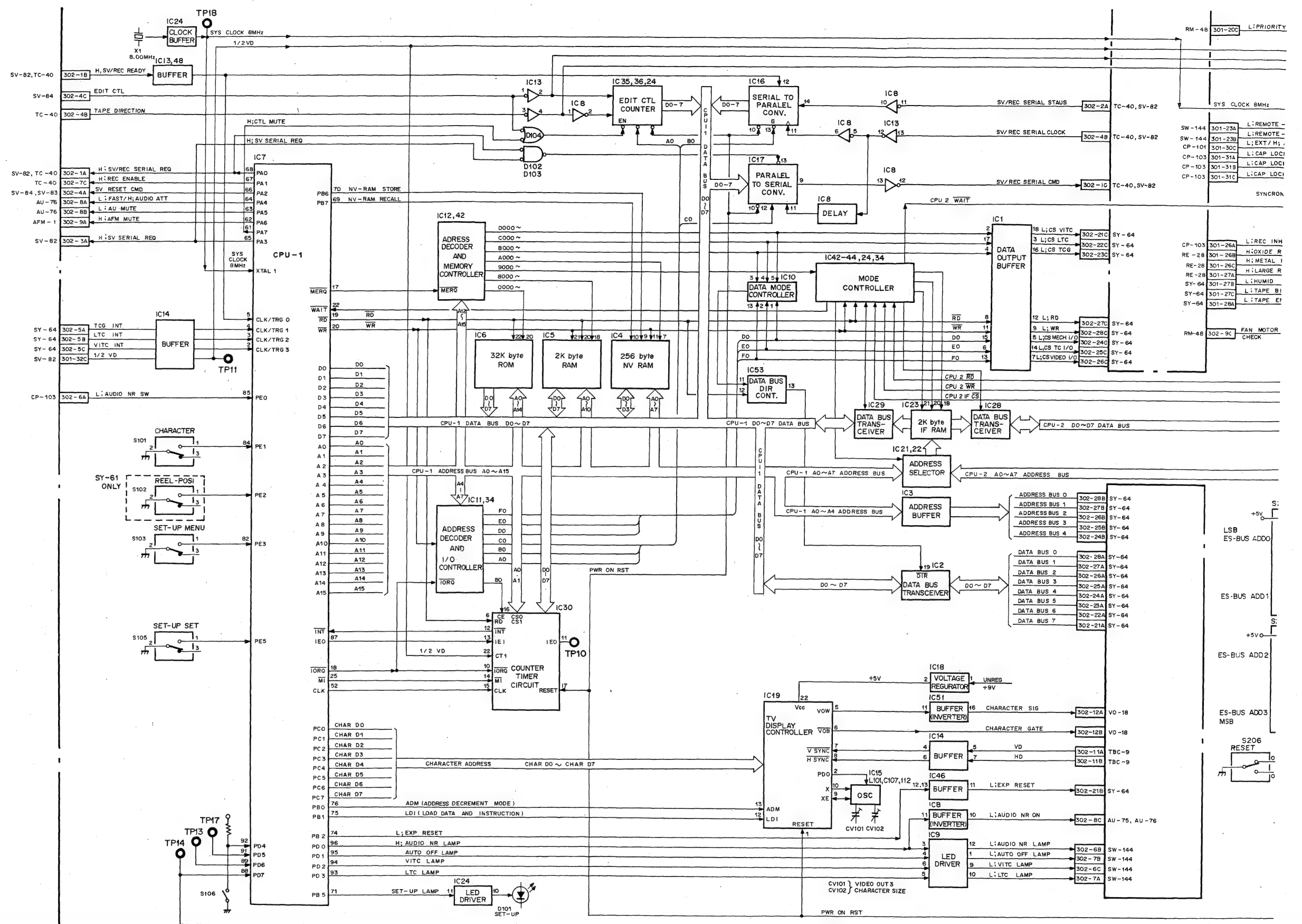
BVW-75
BVW-60
BVW-65
BVW-70
BVW-95
BVW-96

SYSTEM CONTROL SYSTEM CONTROL

SYSTEM CONTROL

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	IC39 32k → 64k A0~A14 → A0~A15	UC: S/N 13176 ~ J: S/N 11204 ~



I/O EXPANDER
TIME CODE READER/GENERATOR
TIME BASE IMPACT ERROR CORRECTOR

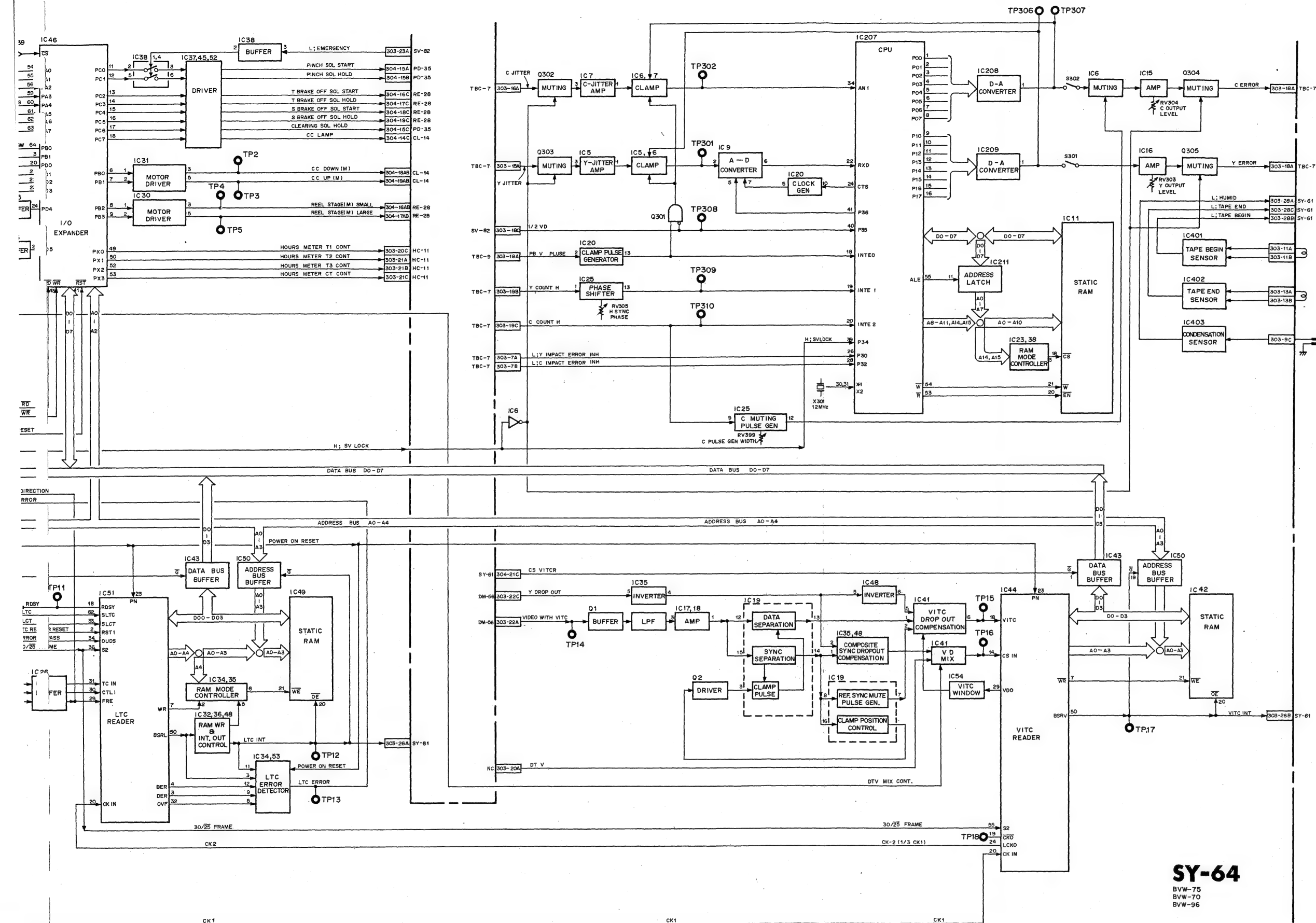
The schematic diagram illustrates the internal circuitry of a video cassette recorder (VCR) system. It features a central data bus (DO-D7) and address bus (AO-A4) connecting various integrated circuits (ICs) and control components.

Key Components and Connections:

- IC39:** A central control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC40:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC38:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC21:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC24:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC26:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC29:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC36:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC33, IC34:** Control ICs connected to the data bus and address bus. They interface with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC22:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC23:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC25:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC27:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC28:** A control IC connected to the data bus and address bus. It interfaces with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC31, IC30:** Motor drivers connected to the data bus and address bus. They interface with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).
- IC45, IC46:** Tape readers connected to the data bus and address bus. They interface with the motor driver (IC31, IC30) and the tape reader (IC45, IC46).

The diagram also shows the connection to external components, including a motor driver, static RAM, and various control switches and relays. The schematic is organized into sections, with components labeled by their part numbers and functions.

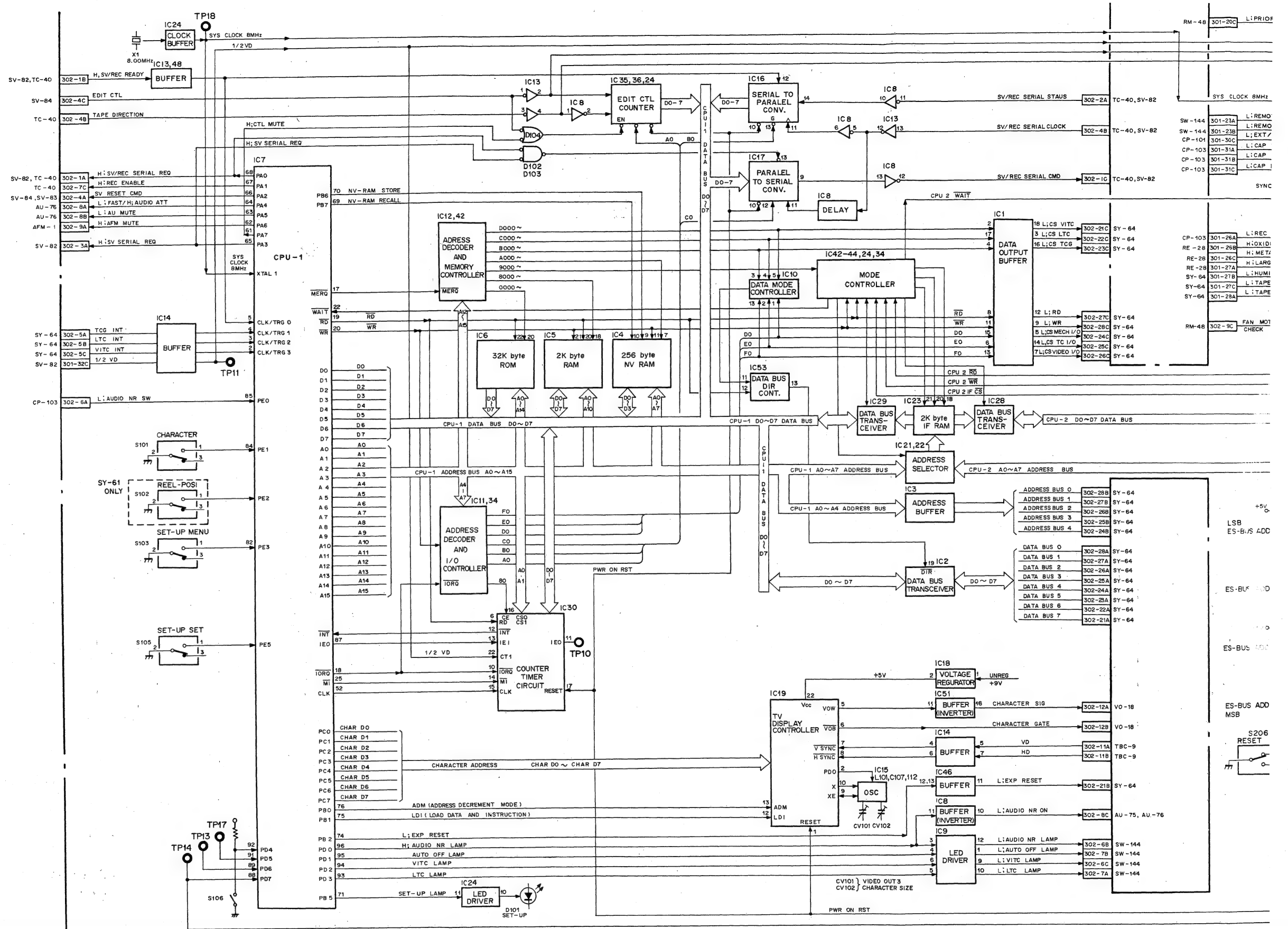
TIME CODE TIME CODE



SY-64
BVW-75
BVW-70
BVW-96

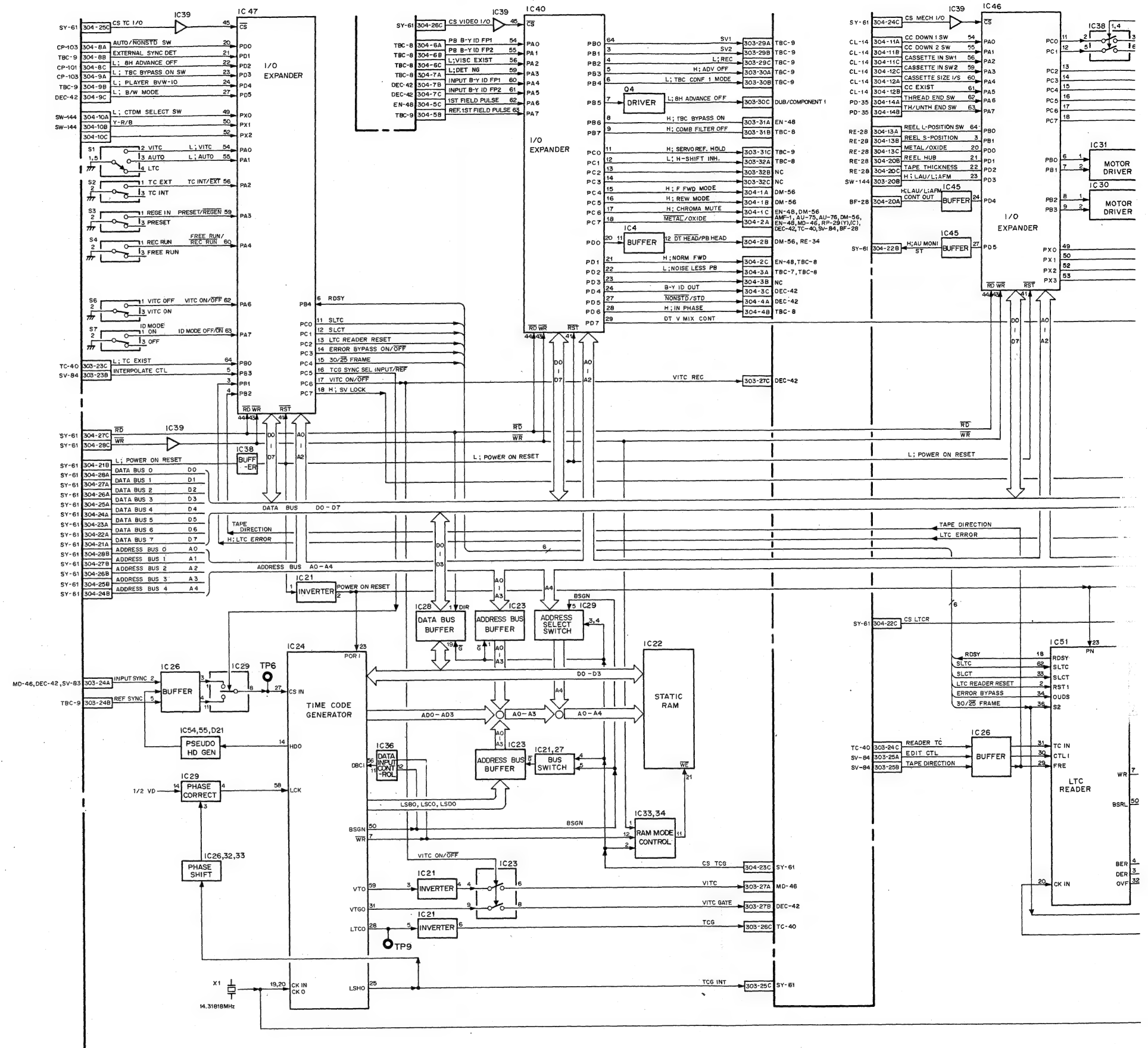
SYSTEM CONTROL

MARK	CHANGE INFORMATION	SERIAL NO.
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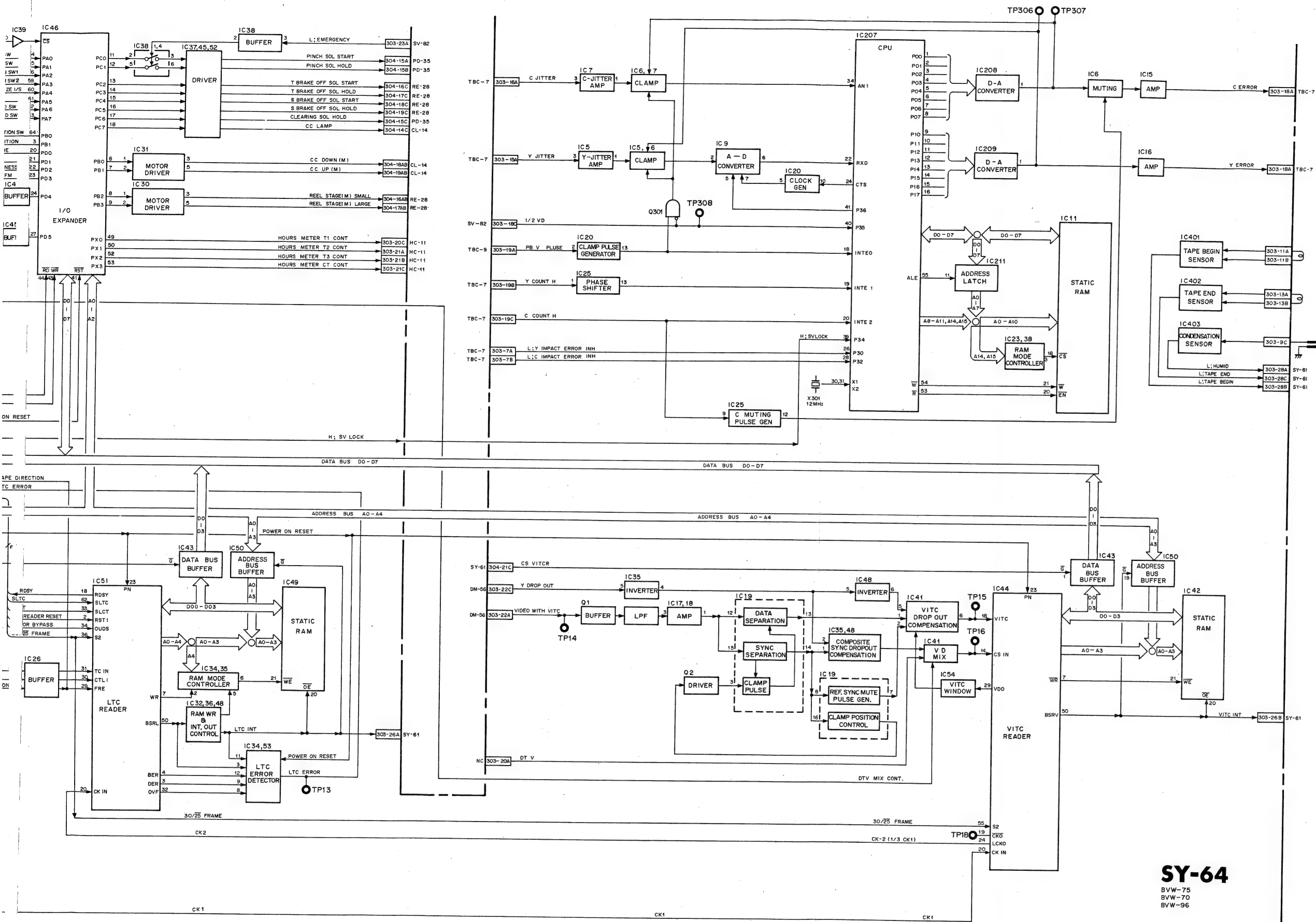


I/O EXPANDER
TIME CODE READER/GENERATOR
TIME BASE IMPACT ERROR CORRECTOR

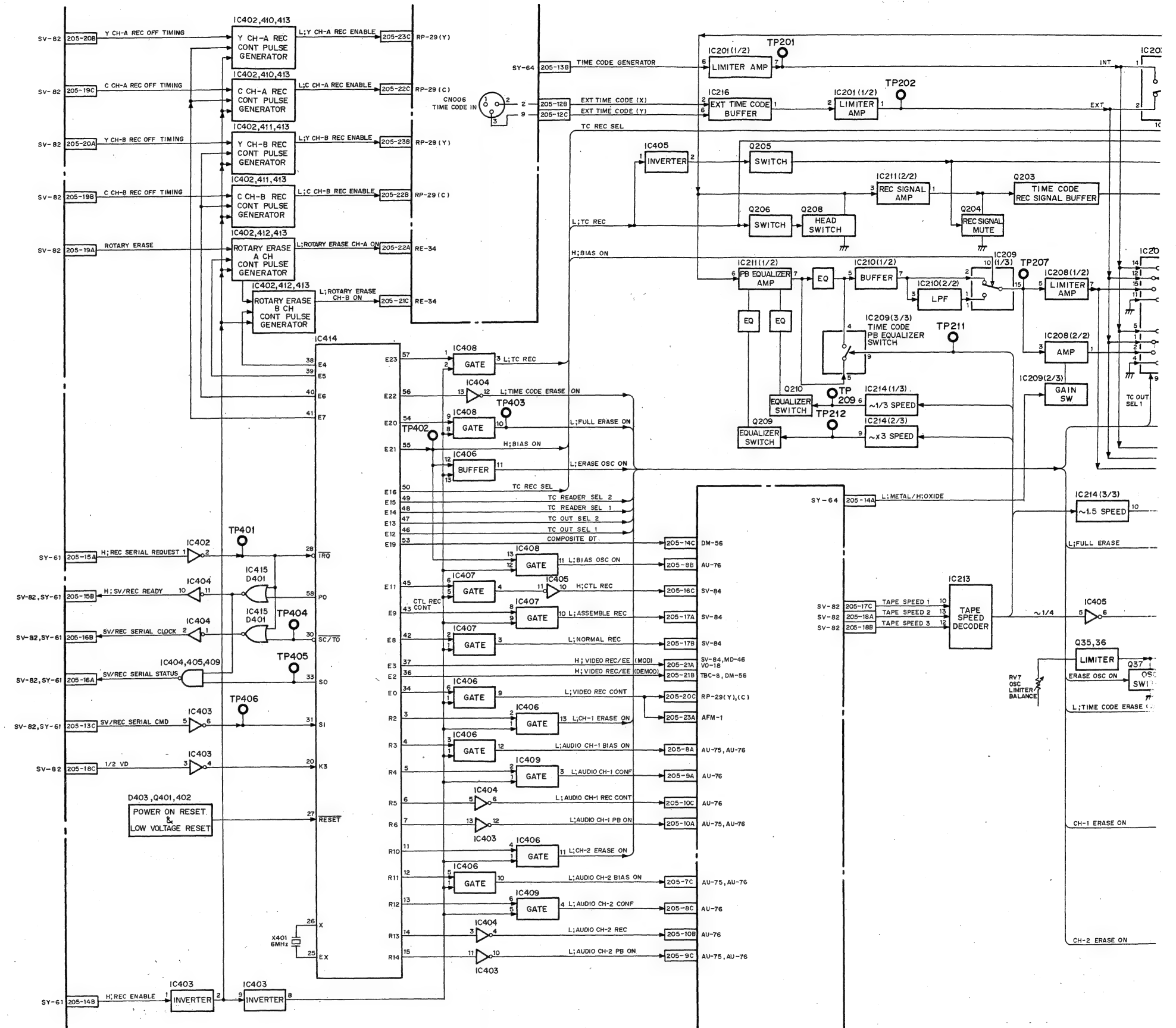
UC; S/N 13411 and higher
J ; S/N 11404 and higher

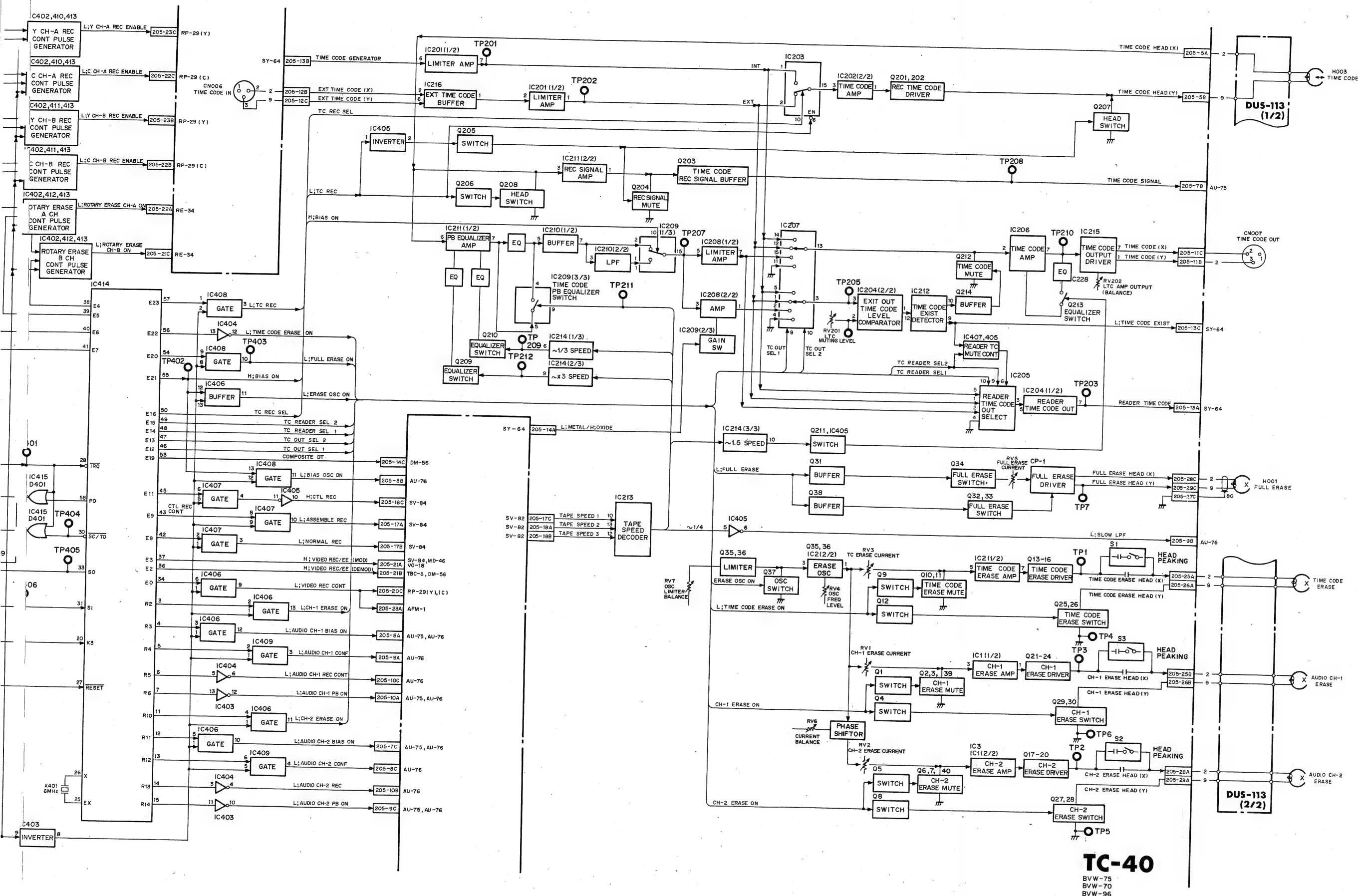


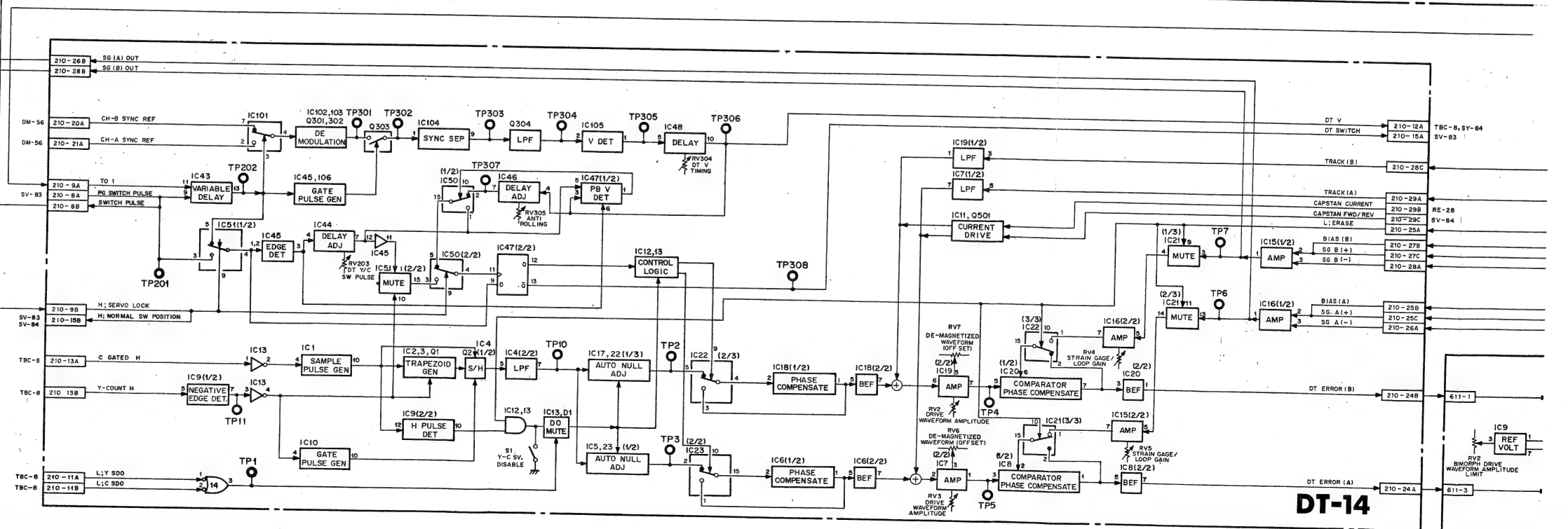
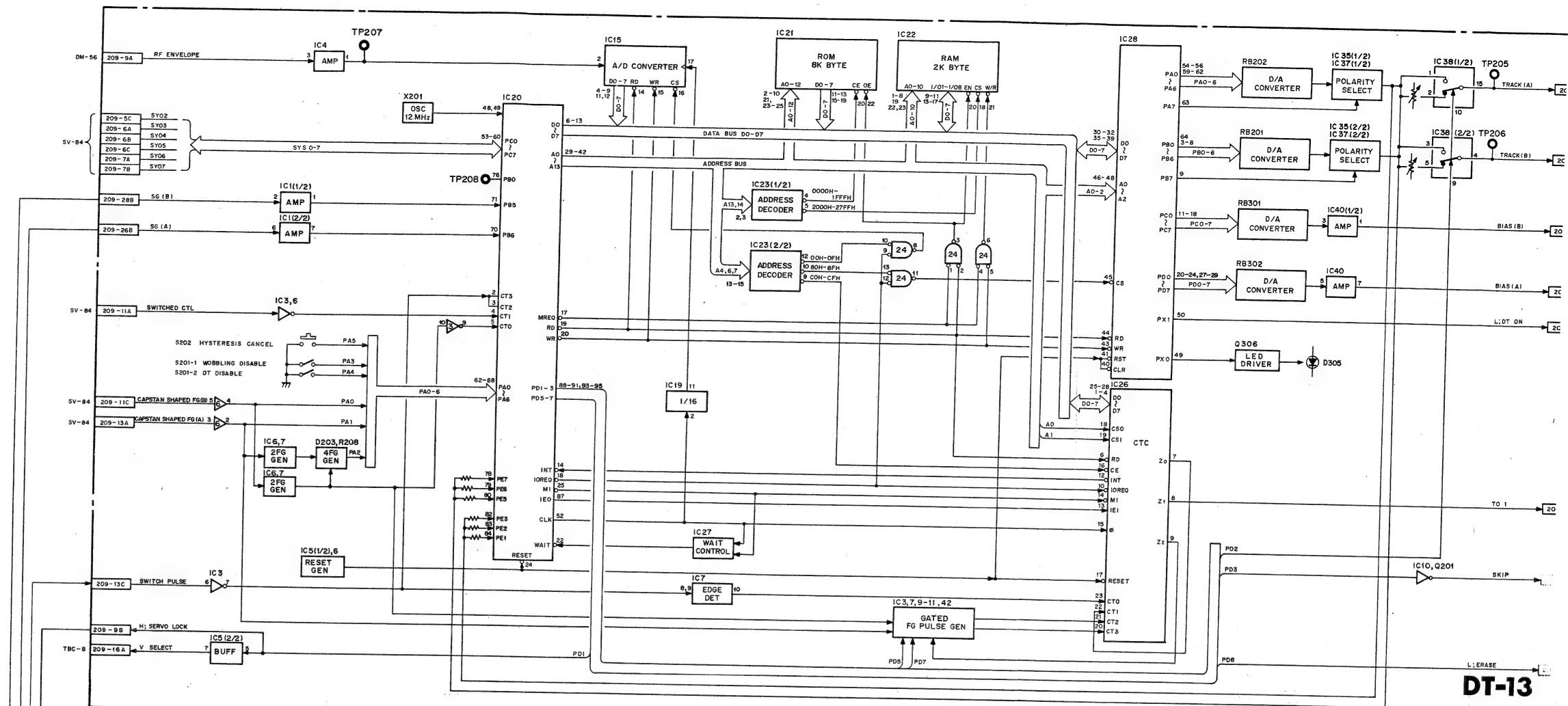
TIME CODE TIME CODE

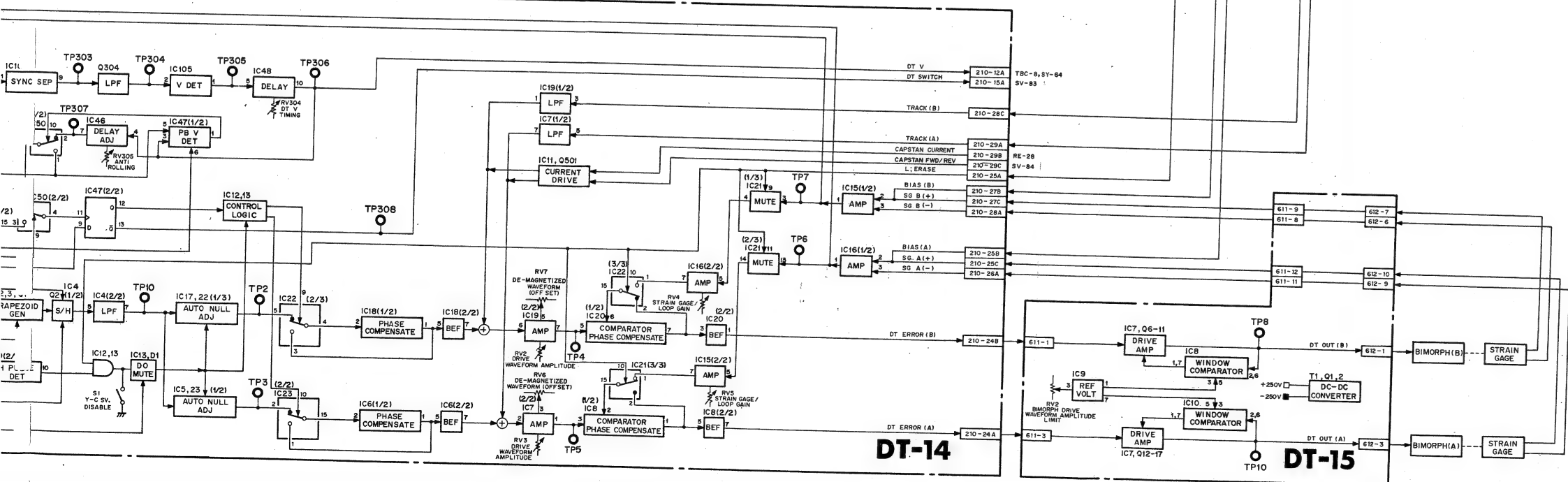
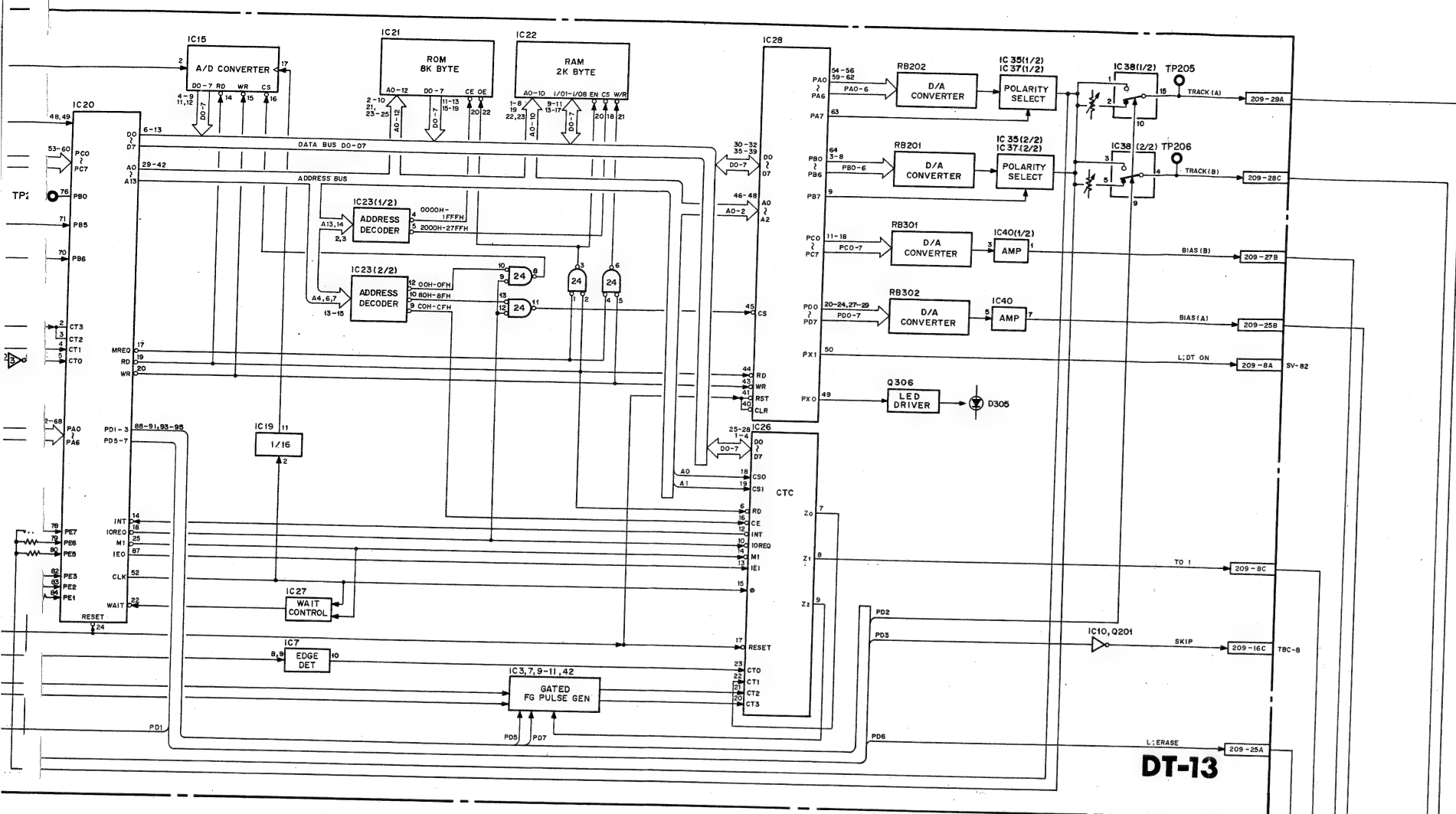


LTC REC/PB AMPLIFIER







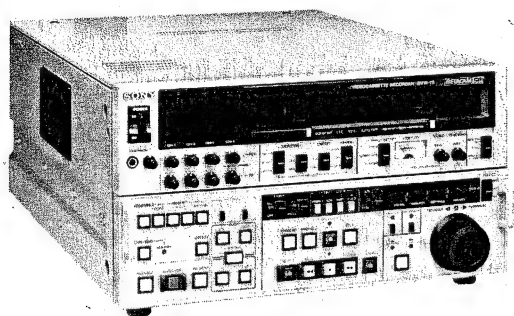


DYNAMIC TRACKING
BVW-75 BVW-65
BVW-96 BVW-95

SONY

VIDEOCASSETTE RECORDER

BVW-75



BETACAM SP™

MAINTENANCE MANUAL

Volume 2 6th Edition (Revised 11)

Serial No. 11104 and Higher (JAPAN)

Serial No. 13028 and Higher (USA CANADA)

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SECTION 16

SCHEMATIC DIAGRAM

CIRCUIT CONFIGURATION

The circuit information is provided below.

System	Board	Circuit function	System	Board	Circuit function
VIDEO	DEC-27	Y/C Separator	AUDIO	AFM-1	AFM Audio Modulator/Demodulator
	DEC-42	C Decoder, C Compressor, Y Selector		FL-61	Low-Pass Filter
	CF-36	Color Framing Detector		CP-111	Audio Output
	DUS-273	R-Y Clamp Level Adj.		CP-161A	Amplifier/Driver
	MD-46	Y/C Modulator		CP-113	Audio Balanced Amplifier
	DUS-272Y *1	Y Non-Linear Preemphasis		HP-33	Headphones Amplifier/Jack
	DUS-272C *1	C Non-Linear Preemphasis		VR-62	Headphones Level Volume
	RP-29(Y)	Y REC/PB Amplifier		DP-74	Audio Level Meter
	RP-29(C)	C REC/PB Amplifier		DP-73	DC-AC/DC Converter
	DM-56	Y/C Demodulator		SW-144	Select Switch/Display
	TBC-7	Time Base Corrector		DP-72	Video/RF Meter LED
	TBC-8	Time Base Corrector		VR-61	Video/Tracking Control Volume
	NR-25	Y Digital Noise Reduction	SERVO	SV-82	Microcomputer
	TBC-9	Time Base Corrector		SV-83	Reel Servo
	EN-48	C Encoder		SV-84	Capstan/Drum Servo
	VO-18	Video Output		RE-28	Capstan/Drum Motor Driver
	DUS-270	Squelch Buffer		PTC-20	Cassette Detector (Tape Thickness, Reel Hub Diameter, Metal/Oxide)
	RE-34	Rotary Erase		PTC-21	Reel Table Position Detector
	CP-103	Sub Control Panel		PTC-23	REC Inhibit Detector
	CP-101	Video/Audio Input		PTC-36	Cassette Detector (Tape Thickness, Reel Hub Diameter, Metal/Oxide)
AUDIO	BF-28	Audio Buffer/Level Detector		DR-56	Drum Error Amplifier, Capstan/Reel Motor Driver
	VR-42	Audio REC/PB Volume		RE-36	Reel Motor Driver
	AU-75	LNG Audio REC/PB Amplifier		RM-40	Reel Motor
	AU-76	LNG Audio Head Amplifier, Bias Oscillator		DE-15	Reel Motor FG
				SE-57	Threading Motor Control
				PTC-31	Threading Motor FG

System	Board	Circuit function
SERVO	TR-18	Tape Tension Sensor
	DT-13	Dynamic Tracking
	DT-14	Dynamic Tracking
	DUS-282	Strain Gage Buffer
	DT-15	Dynamic Tracking
SYSTEM CONTROL	SY-61	System Control
	DUS-570	Fan Motor Error Detector
	SY-64	Time Code Reader/Generator
	RM-48	Remote Connector
	PD-35	Pinch/Cleaning Solenoid
	PTC-15	Thread/Unthread End Sensor
	CL-14	Cassette-up Compartment
	CL-24 *2	Cassette-up Compartment LED
	PC-47	Large/Small Cassette Detector
	PC-33	Cassette Down Detector
	PC-41	Cassette In Detector
	CCM-2	Up/Down Motor
	HC-11	Hours Meter
	KY-96	Keyboard
	KY-107	Keyboard
	KY-108	Keyboard
	PTC-32	Search Dial
	DP-71	Time Counter Display
	PT-9	Power Transistor
	TC-40	LTC REC/PB Amplifier, Erase Driver
OTHERS	AC-96	Relay Board of AC Inlet
	C1	Switching Regulator
	C2	Switching Regulator
	M1	Switching Regulator
	M2	Switching Regulator
	MB-116	Mother Board
	MB-117	Mother Board
	EX-116	Extension Board
	EX-134	Extension Board
	EX-151	Extension Board

NOTE

回路図内において、REF.NOの近傍に下記記号が記載されていますが、これは生産時の部品データです。

In the schematic diagrams, the following marks are described nearby reference number. These are parts data at factory.

CAPACITOR (C)

RESISTOR (R)

VARIABLE RESISTOR (RV)

AL	┐	ELECTROLYTIC
AS	┐	
TA	—	TANTALUM
CA	┐	CERAMIC
CC	┐	
CCS	┐	
CM	┐	
CS	┐	
MPS	┐	MAYLAR
PP	┐	
PS	┐	
PT	┐	
MD	—	DIPPED MICA
MS	—	MICA

RC	┐	CARBON
RD	┐	
RF	—	FUSE
RN	┐	METAL
RS	┐	
RW	—	WIREWOUND

*1...Serial No. up to 14368 (UC)

Serial No. up to 11668 (J)

*2...Serial No. 15552 and higher (UC)

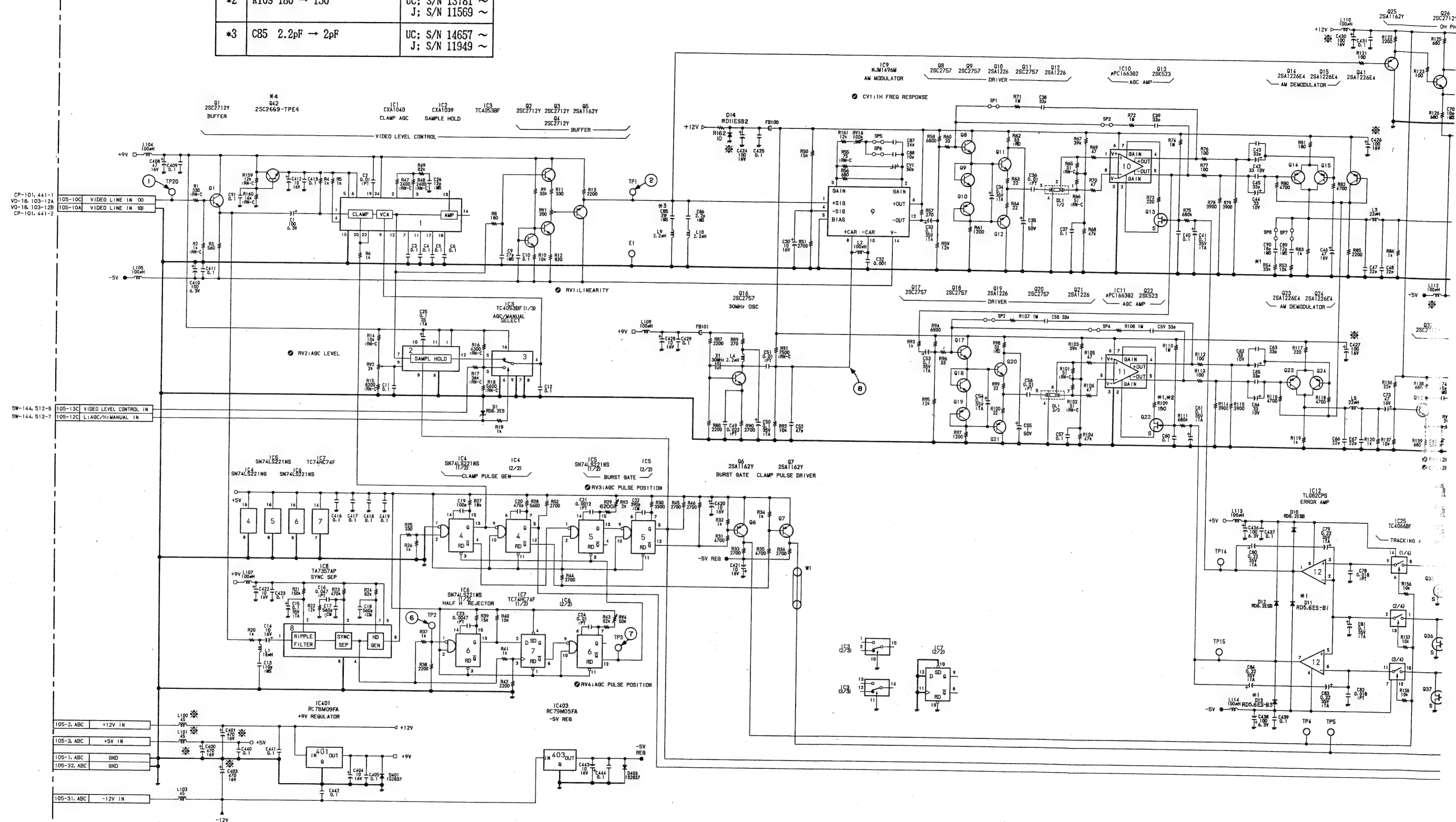
Serial No. 12319 and higher (J)

DEC-27 (1/2); Y/C SEPARATOR

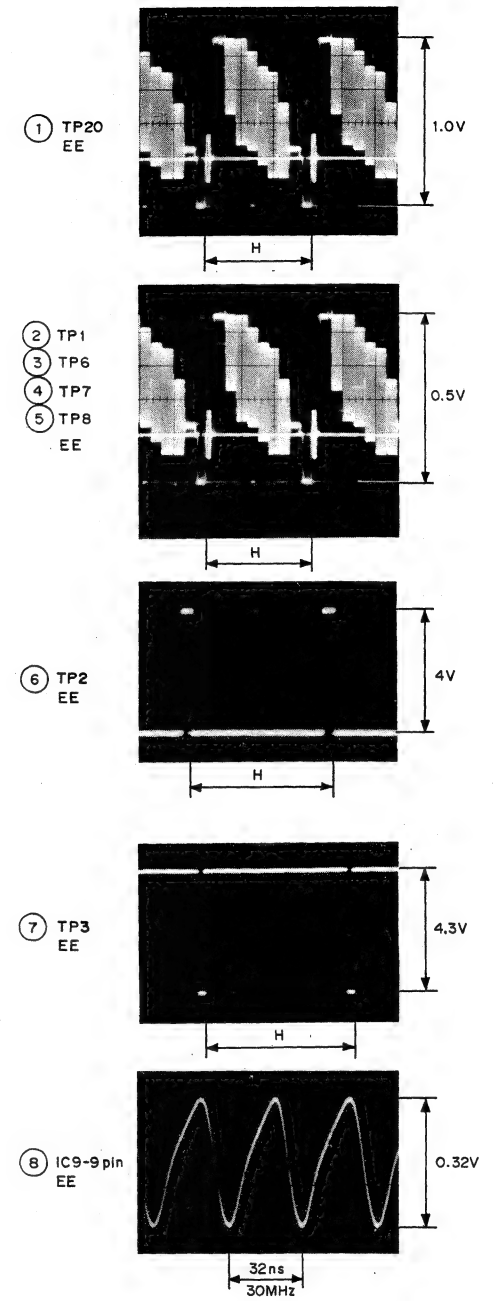
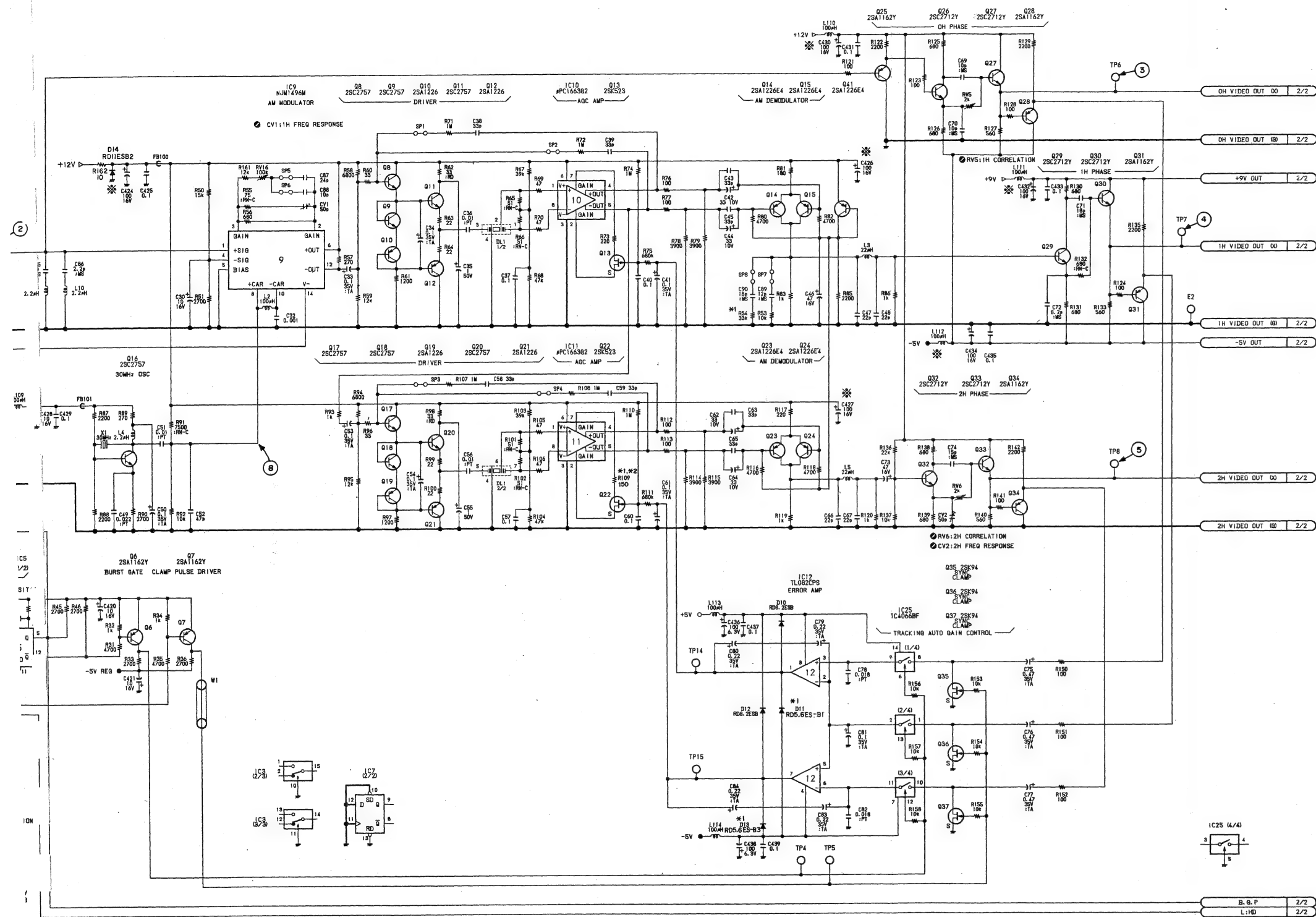
NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	D11 RD6.2ESB → RD6.2ESB1 D13 RD6.2ESB → RD6.2ESB3 R54 33k DELETED R109 220 → 180	UC; S/N 13176 ~ J; S/N 11204 ~
*2	R109 180 → 150	UC; S/N 13781 ~ J; S/N 11569 ~
*3	C85 2.2pF → 2pF	UC; S/N 14657 ~ J; S/N 11949 ~

MARK	CHANGE INFORMATION	SERIAL NO.
*4	Q42 2SC403SP → 2SC2669-TPE4	UC; S/N 16143 ~ J; S/N 12689 ~



OR FION	SERIAL NO.
→ 2SC2669-TPE4	UC; S/N 16143 ~ J; S/N 12689 ~



DEC-27(1/2)

1-622-543-13, 14, 15
BVW-70
BVW-75
BVW-96

DEC-27 (2/2); Y/C SEPARATOR

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	C155 15pF → 24pF	UC; S/N 13176 ~ J; S/N 11204 ~
*2	Q78 2SC3326A ↓ 2SC2223-F13	UC; S/N 13226 ~ J; S/N 11304 ~
*3	C208 0 DELETED	UC; S/N 14657 ~ J; S/N 11949 ~
*4	RV20 50k → 100k	UC; S/N 15737 ~ J; S/N 12419 ~

MARK	CHANGE INFORMATION	SERIAL NO.
*5	C207 0.1 → 4700pF	UC; S/N 15894 ~ J; S/N 12589 ~

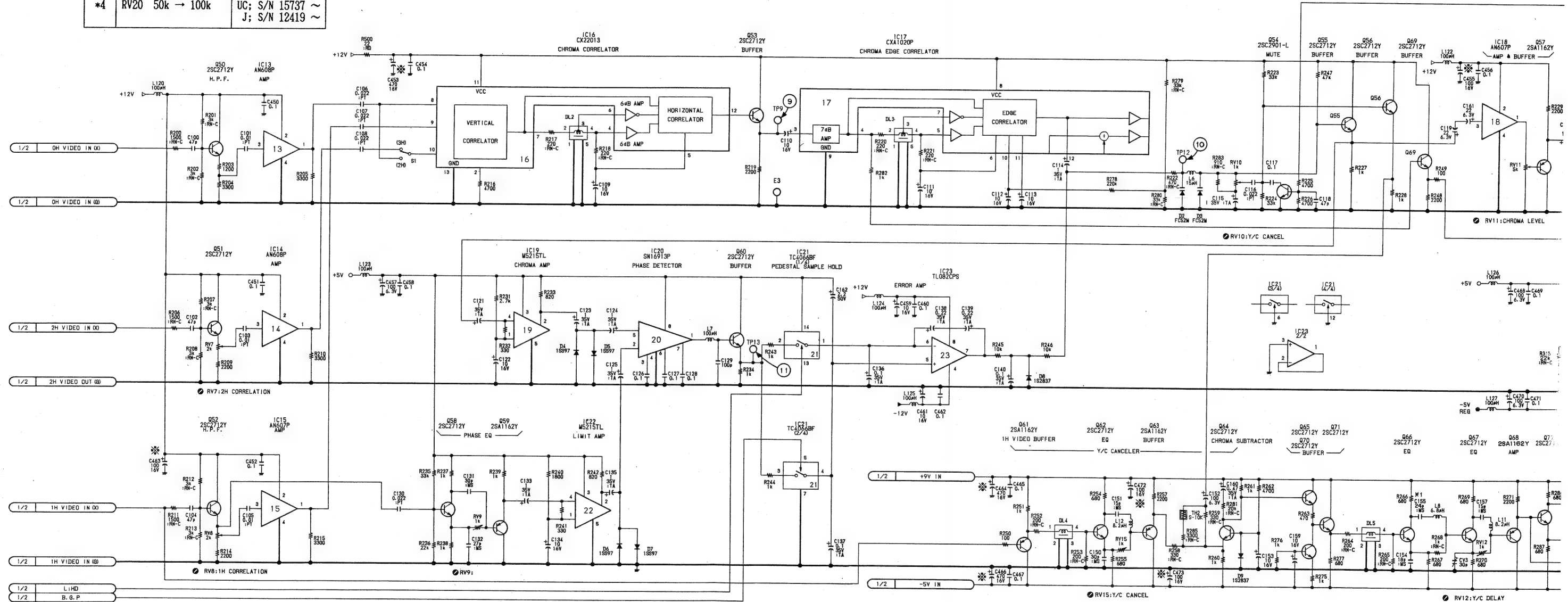
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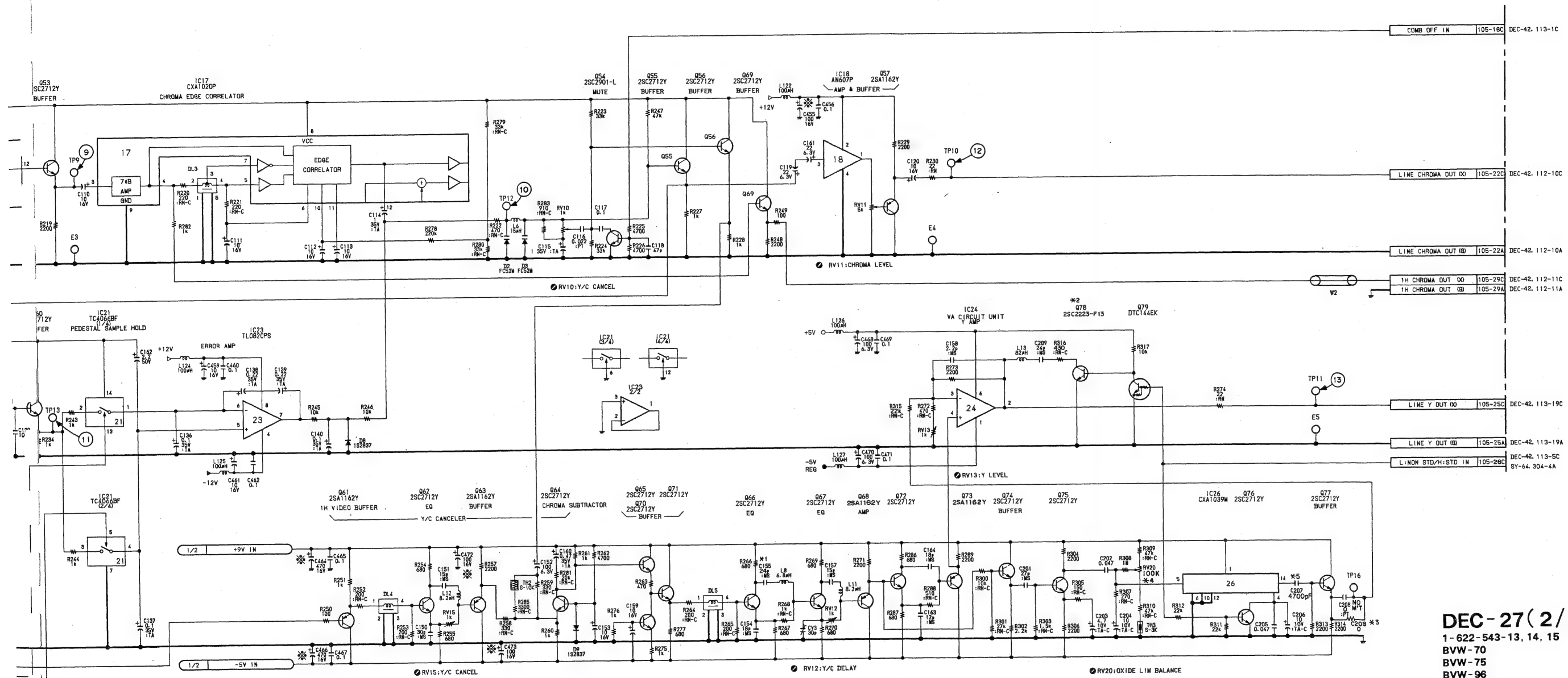
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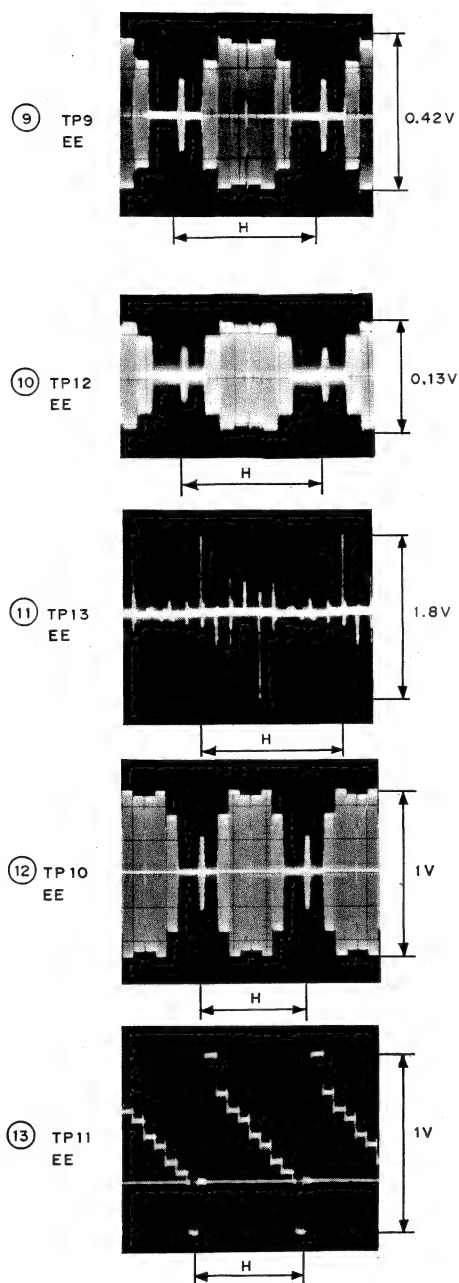
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4

5

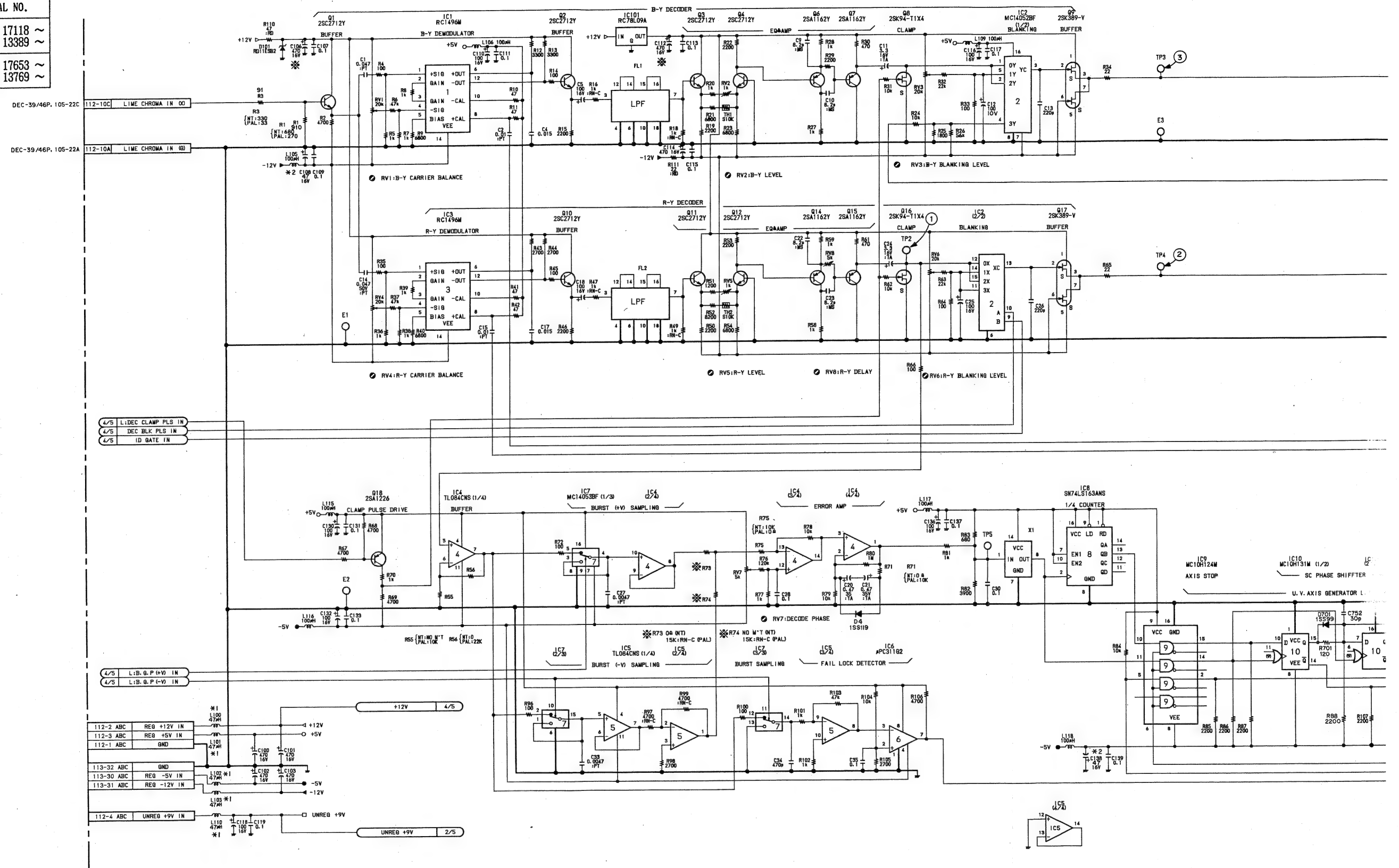


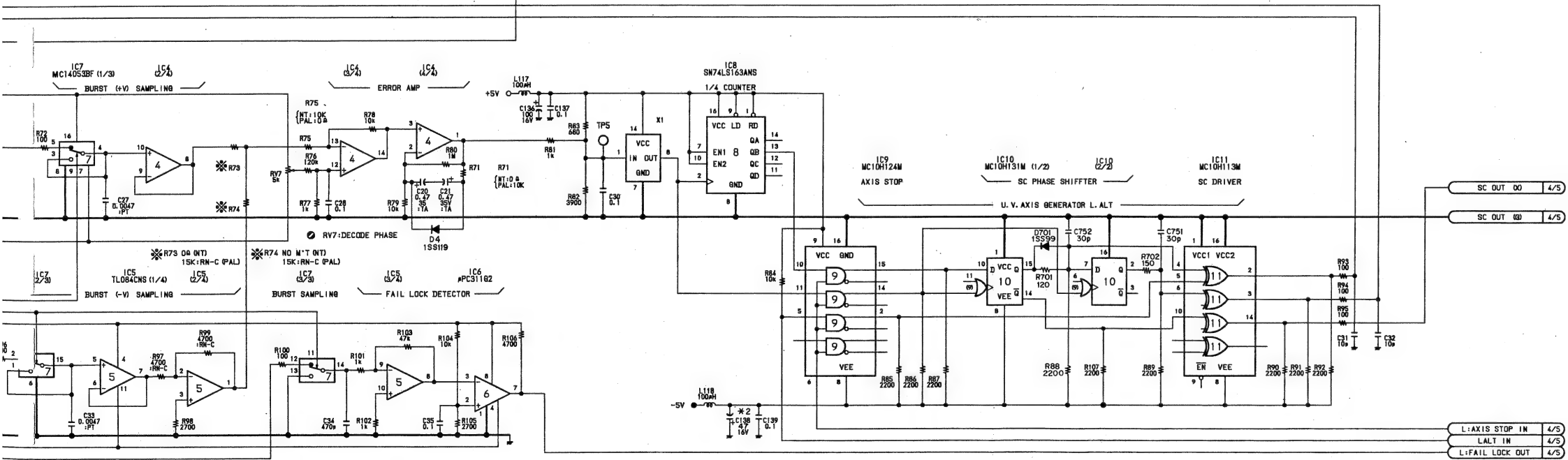
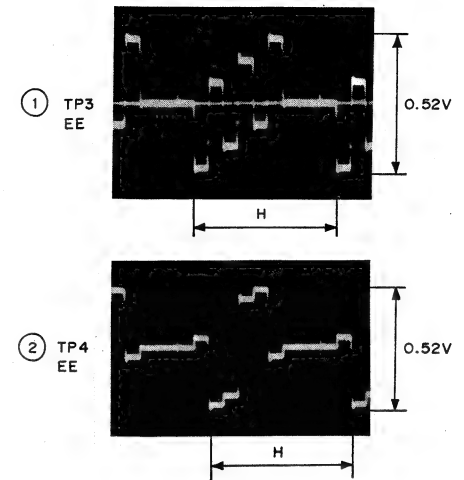
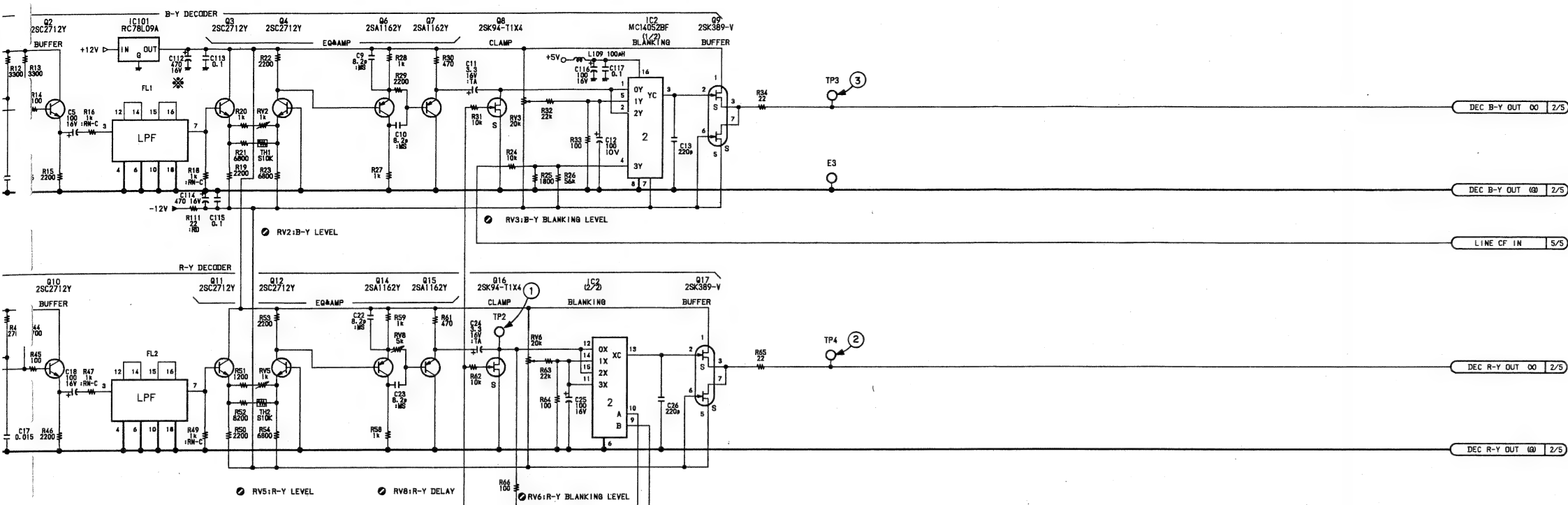




NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	L100,101,102,103,110 45 μ H \rightarrow 47 μ H	UC: S/N 17118 ~ J: S/N 13389 ~
*2	C108,138 100/16V \rightarrow 47/16V	UC: S/N 17653 ~ J: S/N 13769 ~





DEC-42(1/5)

1-625-947-11, 12, 13

BVW-70

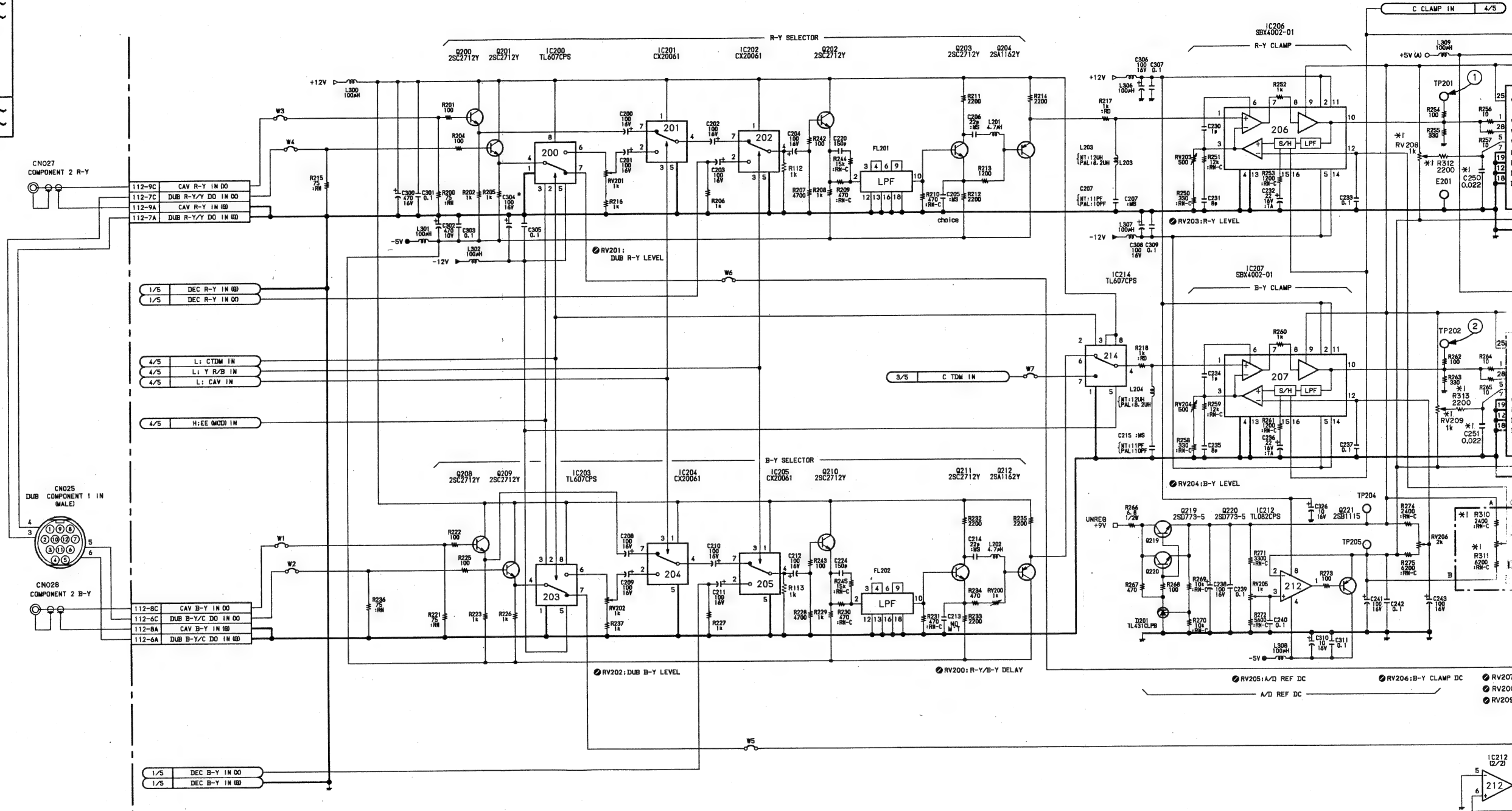
BVW-75

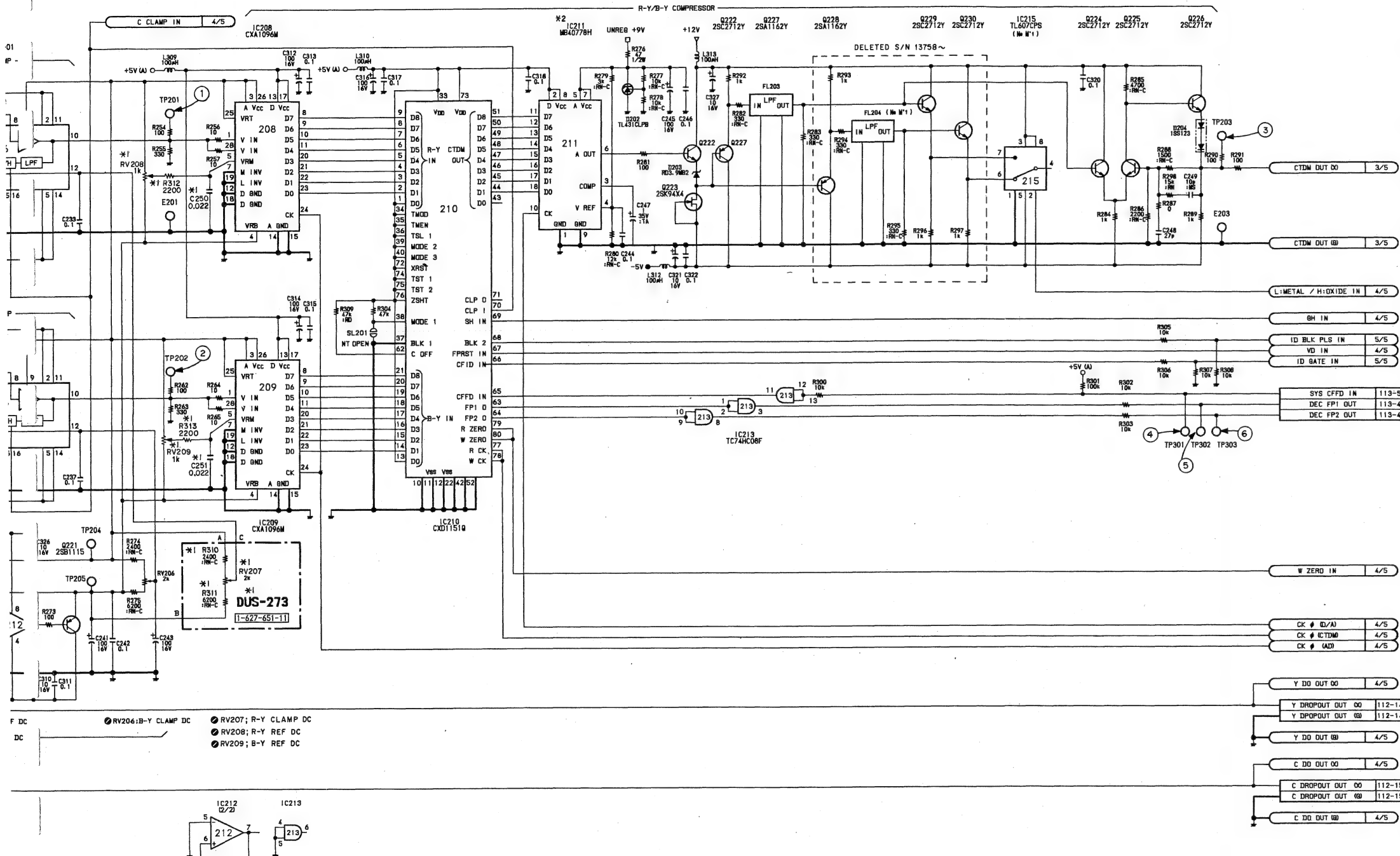
BVW-96

DEC-42 (2/5); R-Y/B-Y COMPRESSOR
DUS-273; R-Y/B-Y CLAMP LEVEL ADJ.

NOTE

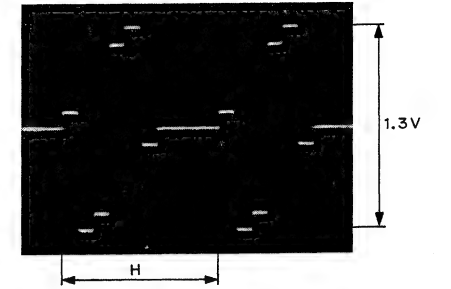
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*1	DUS-273 DELETED C250, C251 0.022 ADDED R310 2400 ADDED R311 6200 ADDED R312, R313 2200 ADDED RV207 2k ADDED RV208, RV209 1k ADDED	UC: S/N 14822 ~ J: S/N 12029 ~
*2	IC211 MB40778P → MB40778H	UC: S/N 16143 ~ J: S/N 12689 ~



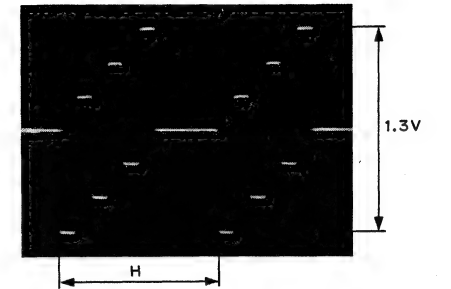


DEC-42 (2/5)
1-625-947-11, 12, 13
BVW-70
BVW-75
BVW-96

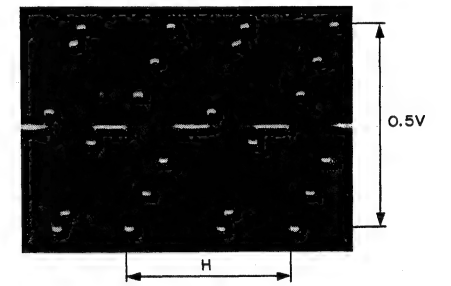
① TP201
EE



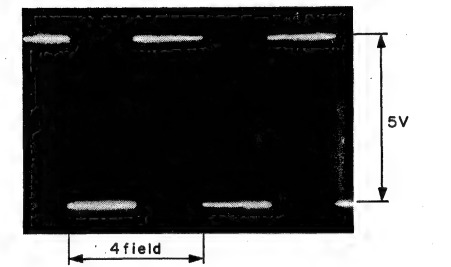
② TP202
EE



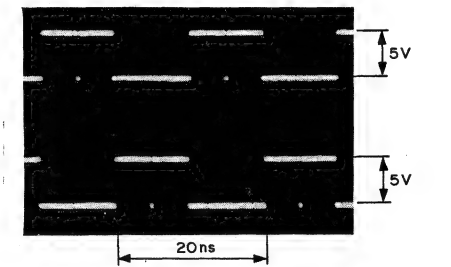
③ TP203
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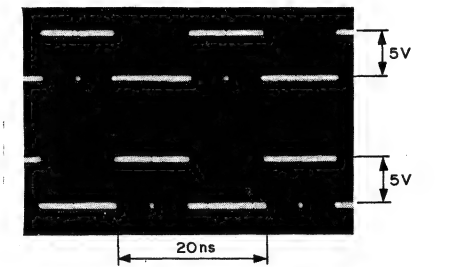
④ TP301
EE



⑤ TP302
EE

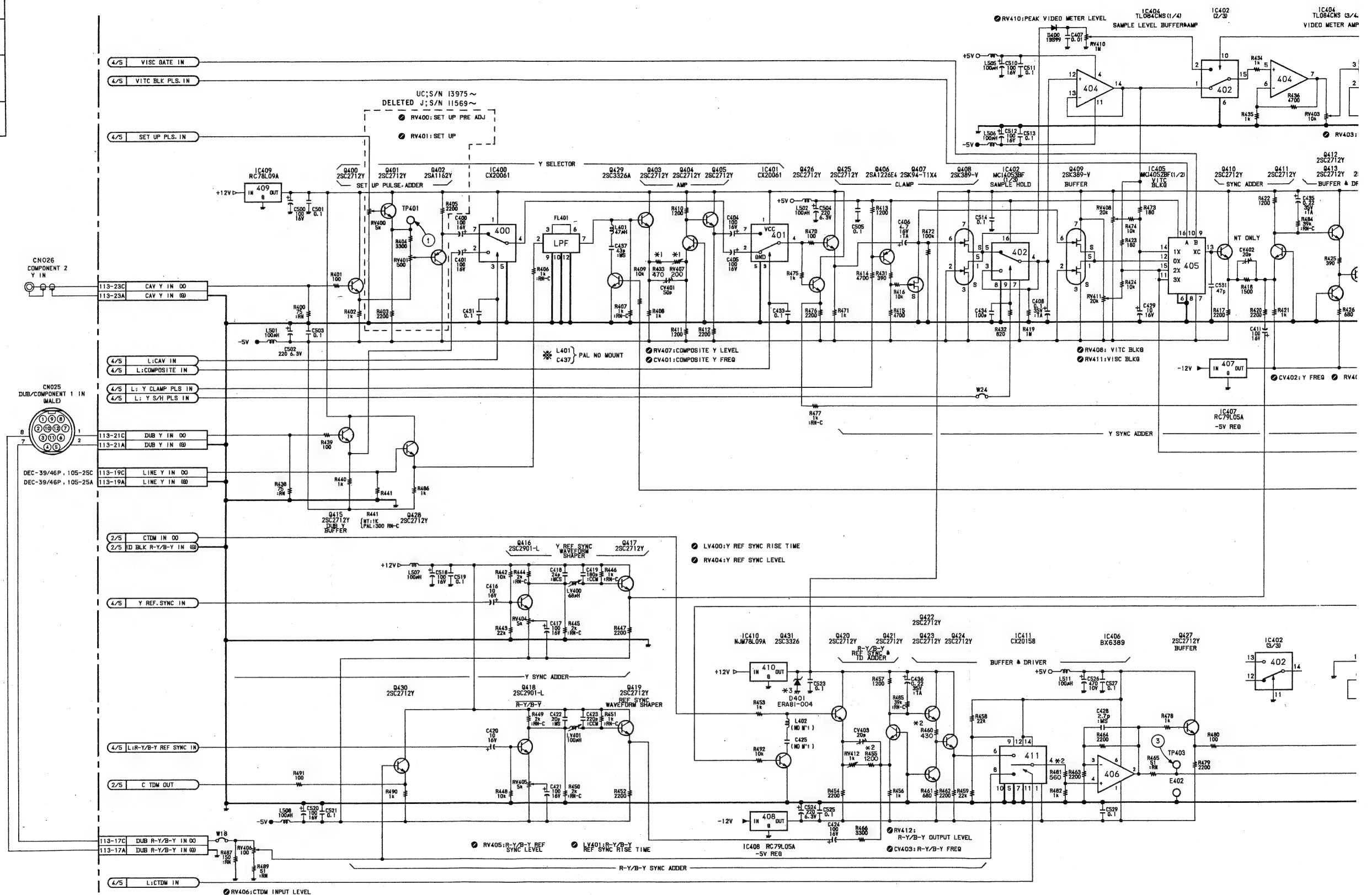


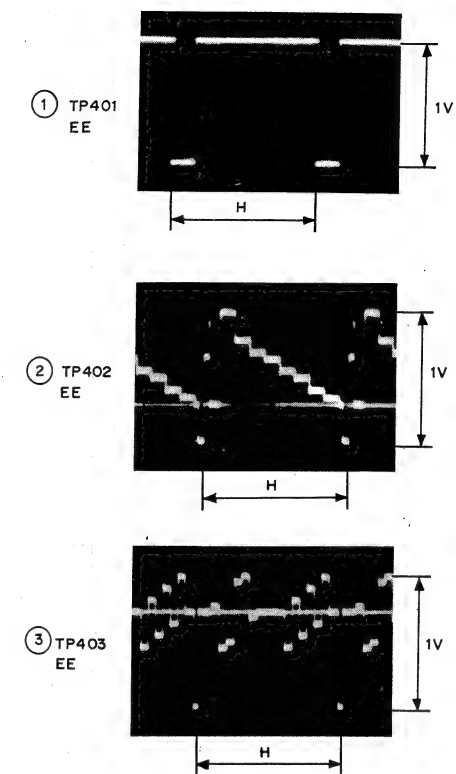
⑥ TP303
EE



NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R433 180 → 470 RV407 1k → 200	UC; S/N 13326 ~ J; S/N 11304 ~
*2	R455 680 → 1200 R460 390 → 430 R481 1k → 560	UC; S/N 15472 ~ J; S/N 12239 ~
*3	D401 ADDED	UC; S/N 16325 ~ J; S/N 12754 ~



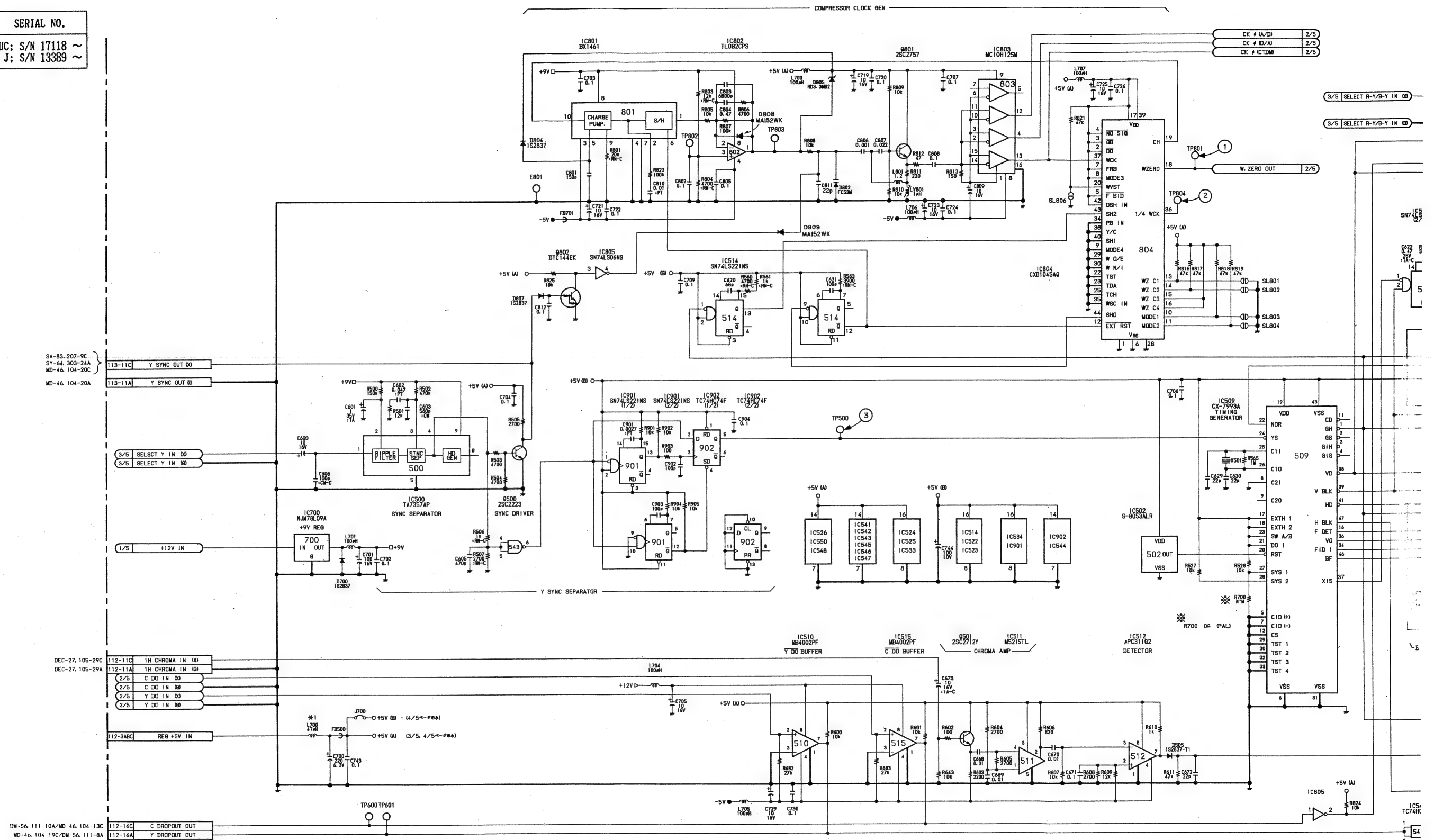


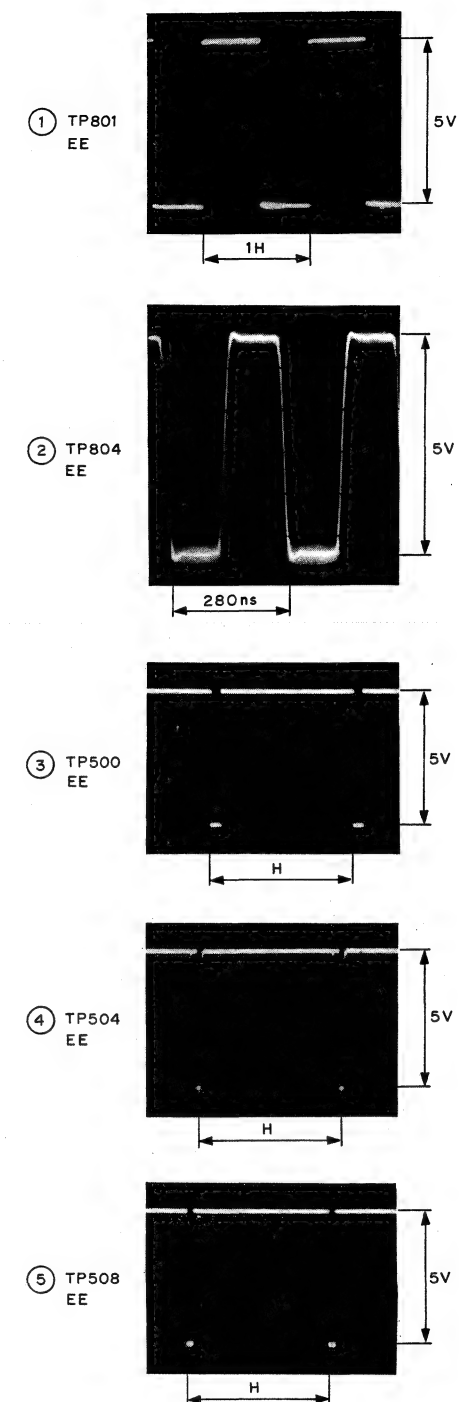
BVW-96

DEC-42 (4/5); TIMING GENERATOR

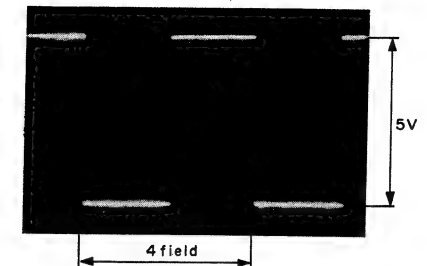
NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	L700 45 μ H \rightarrow 47 μ H	UC; S/N 17118 ~ J; S/N 13389 ~





BVW-96

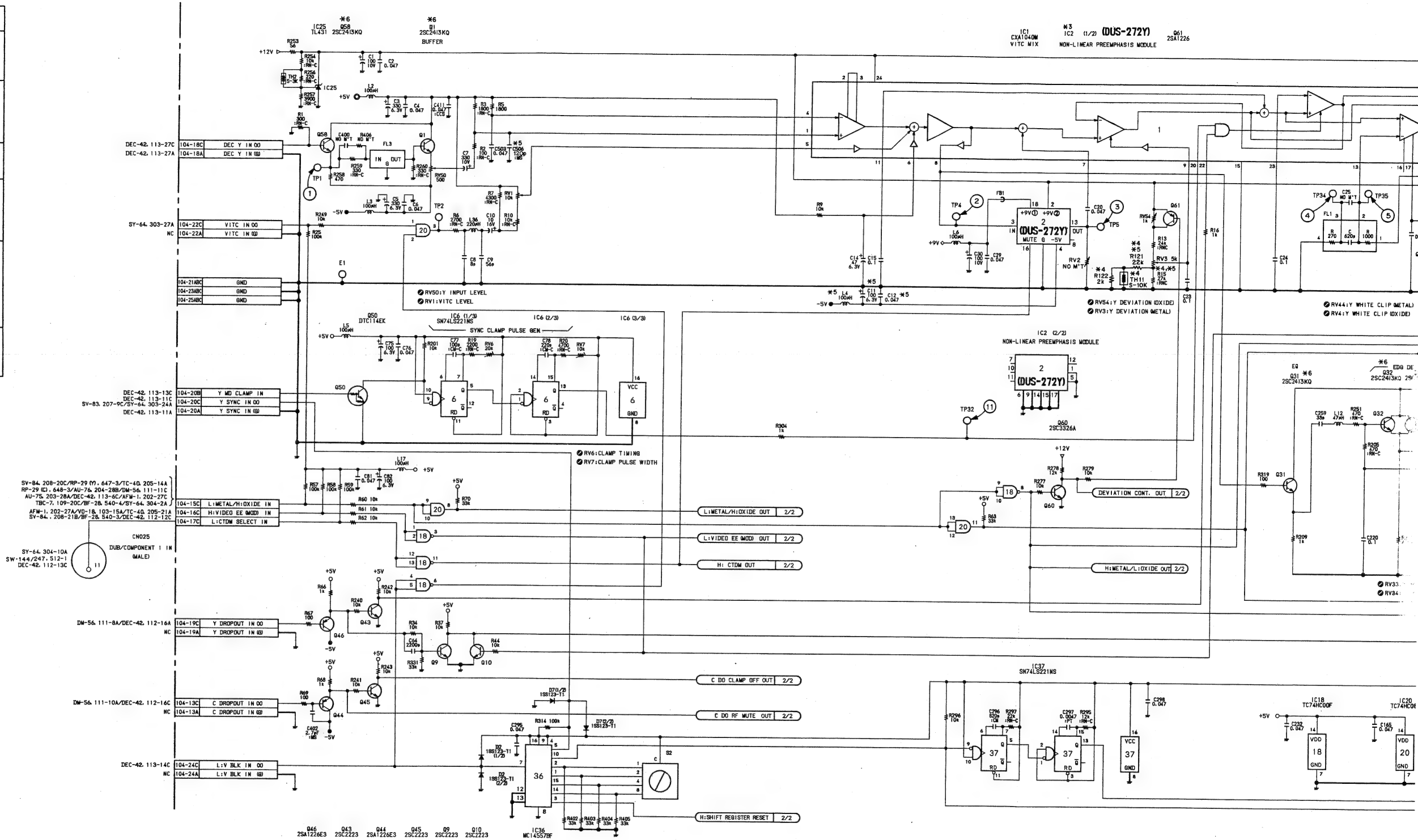


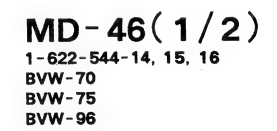
DEC-42(5/5)
1-625-947-11, 12, 13
BVW-70
BVW-75
BVW-96

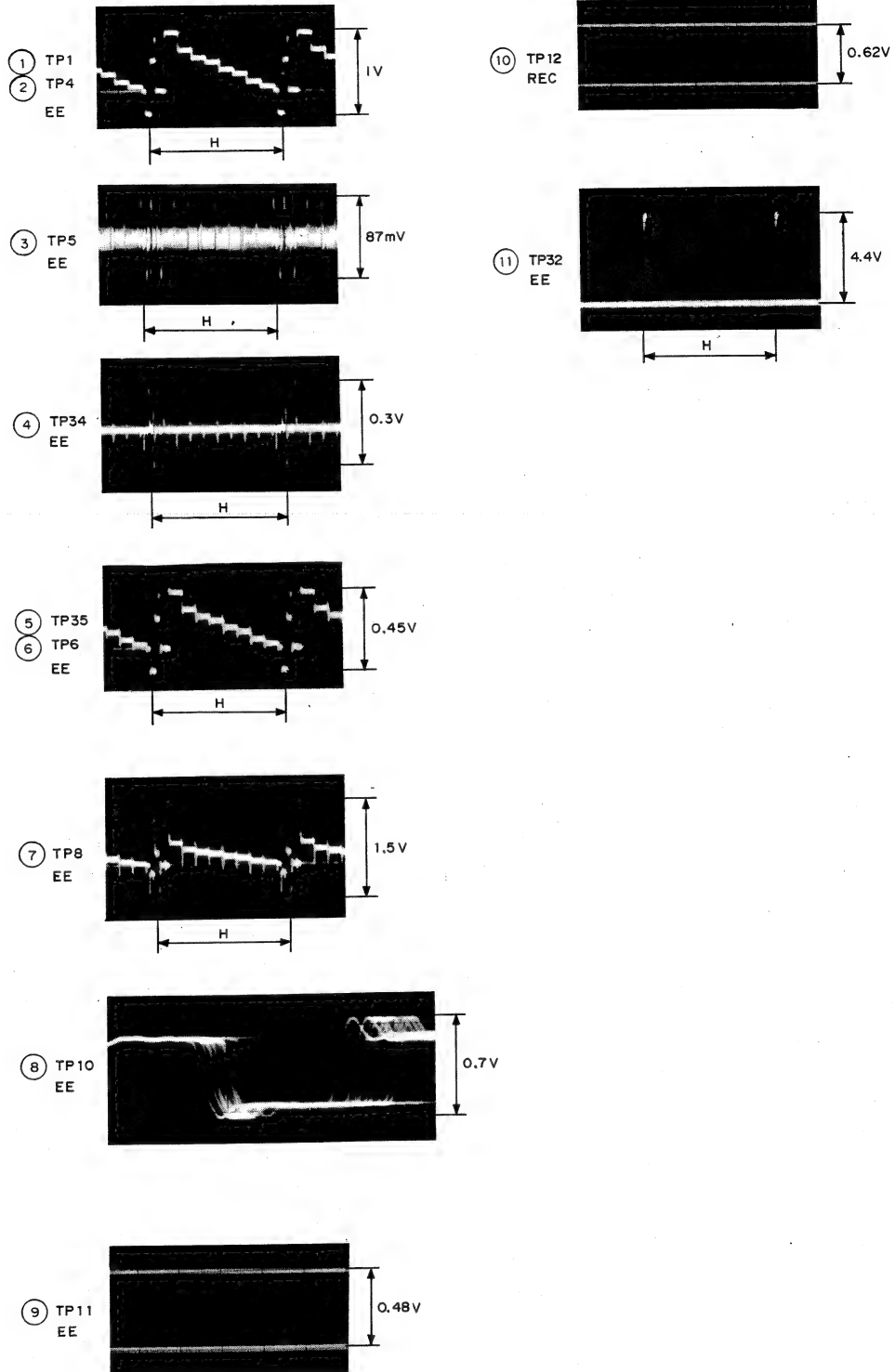
MD-46 (1/2); Y MODULATOR
DUS-272Y; Y NON-LINEAR PREEMPHASIS

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R202 10k→18k R206 8200→7500 R417 2400→3300	UC; S/N 13326 ~ J; S/N 11304 ~
*2	R211 6800→5600 R416 0→1k R417 3300→3k RV38 500→1k	UC; S/N 13781 ~ J; S/N 11569 ~
*3	IC2 DUS-272Y→SBX1589	UC; S/N 14369 ~ J; S/N 11669 ~
*4	R15 27k DELETED R121 22k ADDED R122 2k ADDED TH11 S-10K ADDED	UC; S/N 14175 ~ J; S/N 11619 ~
*5	DELETED C11, C12, L4, R121 CHANGED C506 30p → 120p ADDED R15	UC; S/N 15552 ~ J; S/N 12319 ~
*6	Q1,8,25,31,32,33,51,58, Q62 2SC2715Y → 2SC2413KQ	UC; S/N 16728 ~ J; S/N 13094 ~





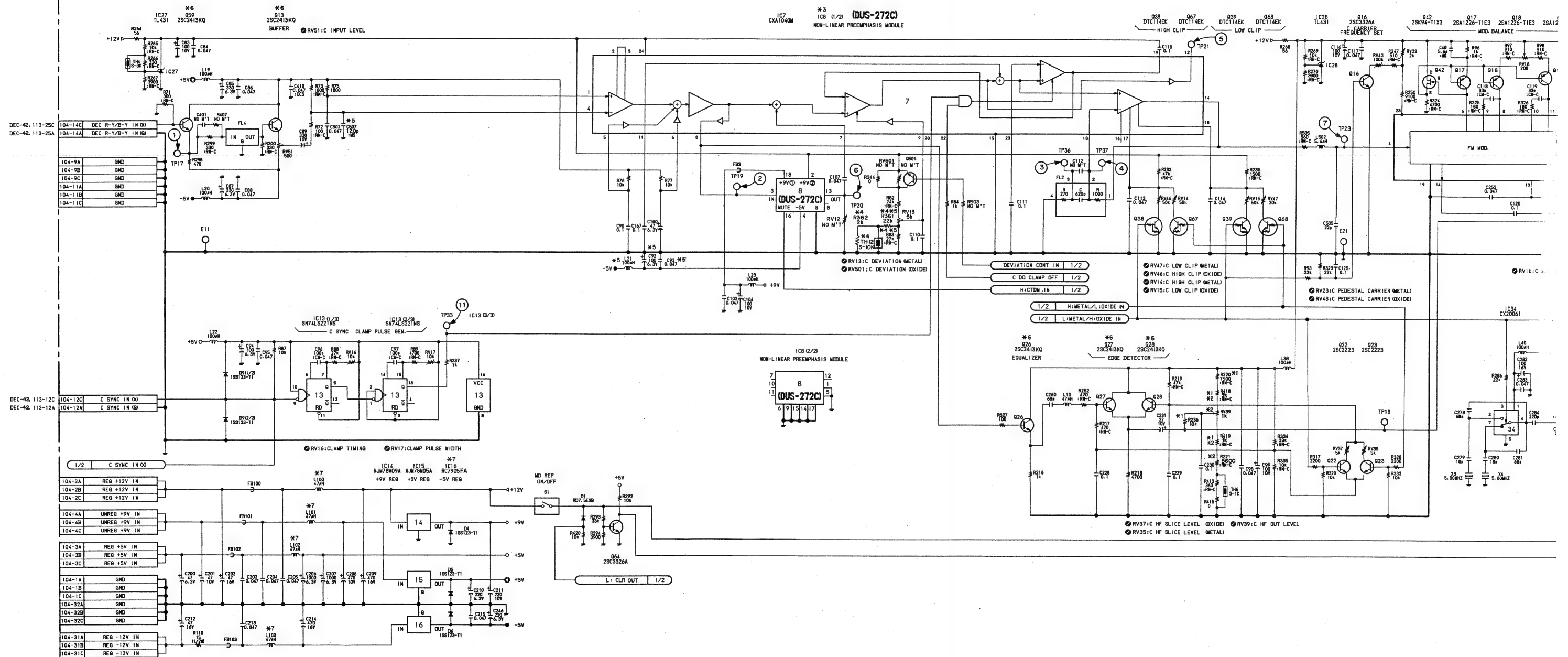


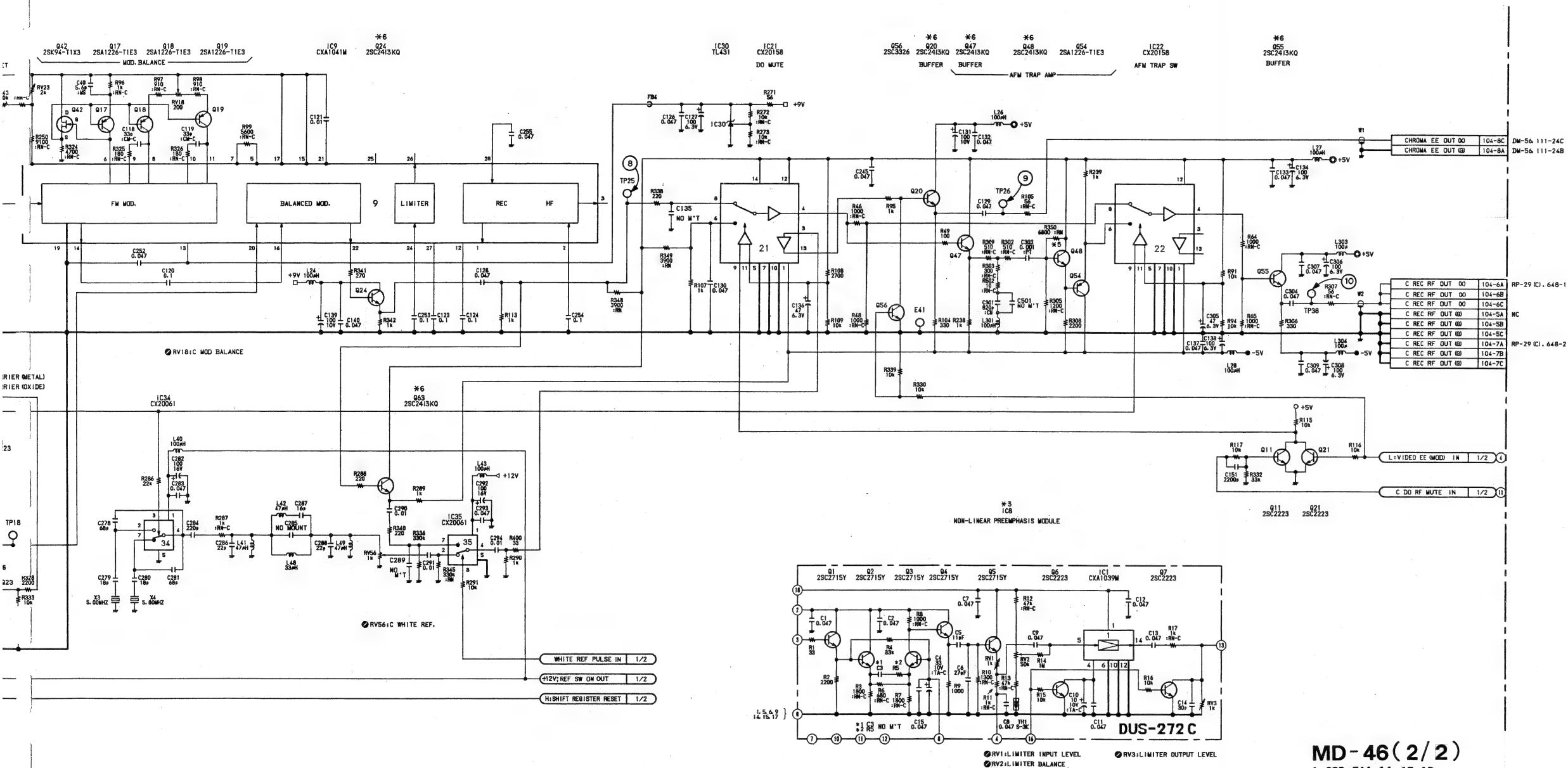
MD-46 (2/2); C MODULATOR
DUS-272C; C NON-LINEAR PREEMPHASIS

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R220 8200→7500 R236 10k→18k R418 2400→3300 R419 200→0	UC; S/N 13226 ~ J; S/N 11304 ~
*2	R221 6800→5600 R418 3300→3k R419 0→1k RV39 500→1k	UC; S/N 13781 ~ J; S/N 11569 ~
*3	IC8 DUS-272C→SBX1589	UC; S/N 14369 ~ J; S/N 11669 ~
*4	R83 27k DELETED R361 22k ADDED R362 2k ADDED TH12 S-10K ADDED	UC; S/N 14175 ~ J; S/N 11619 ~

MARK	CHANGE INFORMATION	SERIAL NO.
*5	DELETED C92, C93, L21, R350 R361 CHANGED C507 30p → 120p ADDED R83	UC; S/N 15552 ~ J; S/N 12319 ~
*6	Q13, 20, 24, 26, 27, 28, 47, Q48, 55, 59, 63 2SC2715Y → 2SC2413KQ	UC; S/N 16728 ~ J; S/N 13094 ~
*7	IC16 μPC7905H → RC7905FA L100, 101, 102, 103 45μH → 47μH	UC; S/N 17118 ~ J; S/N 13389 ~





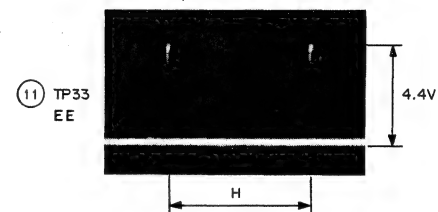
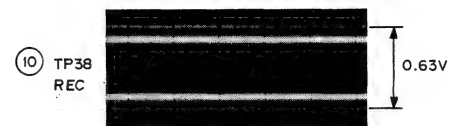
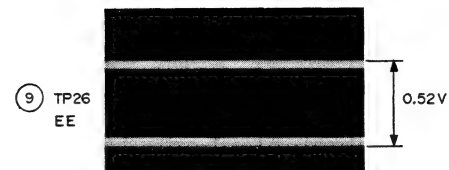
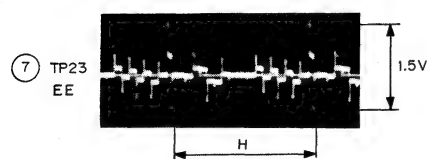
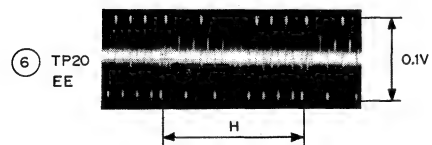
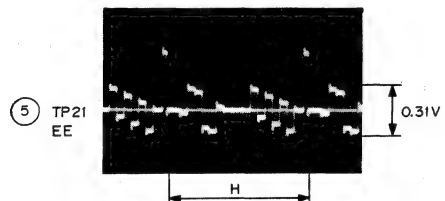
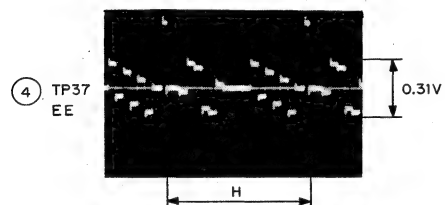
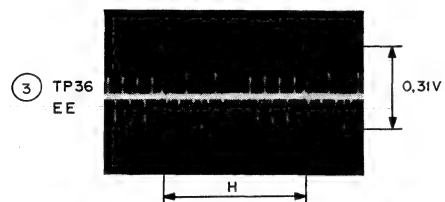
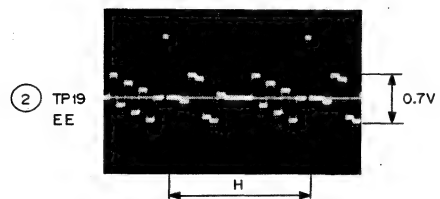
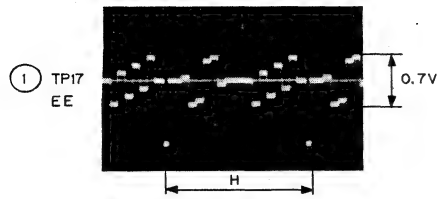
MD-46 (2/2)

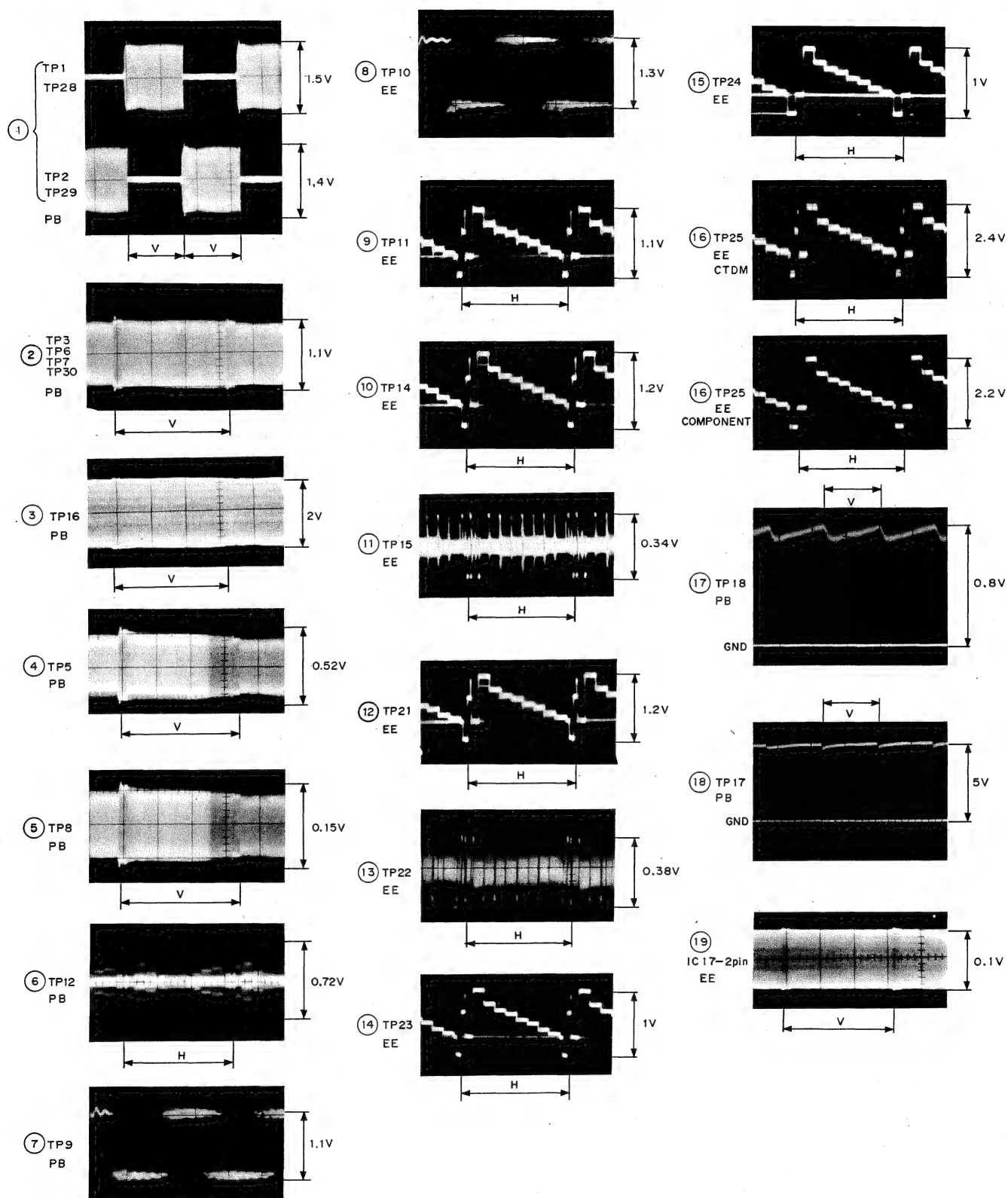
1-622-544-14, 15, 16

BVW-70

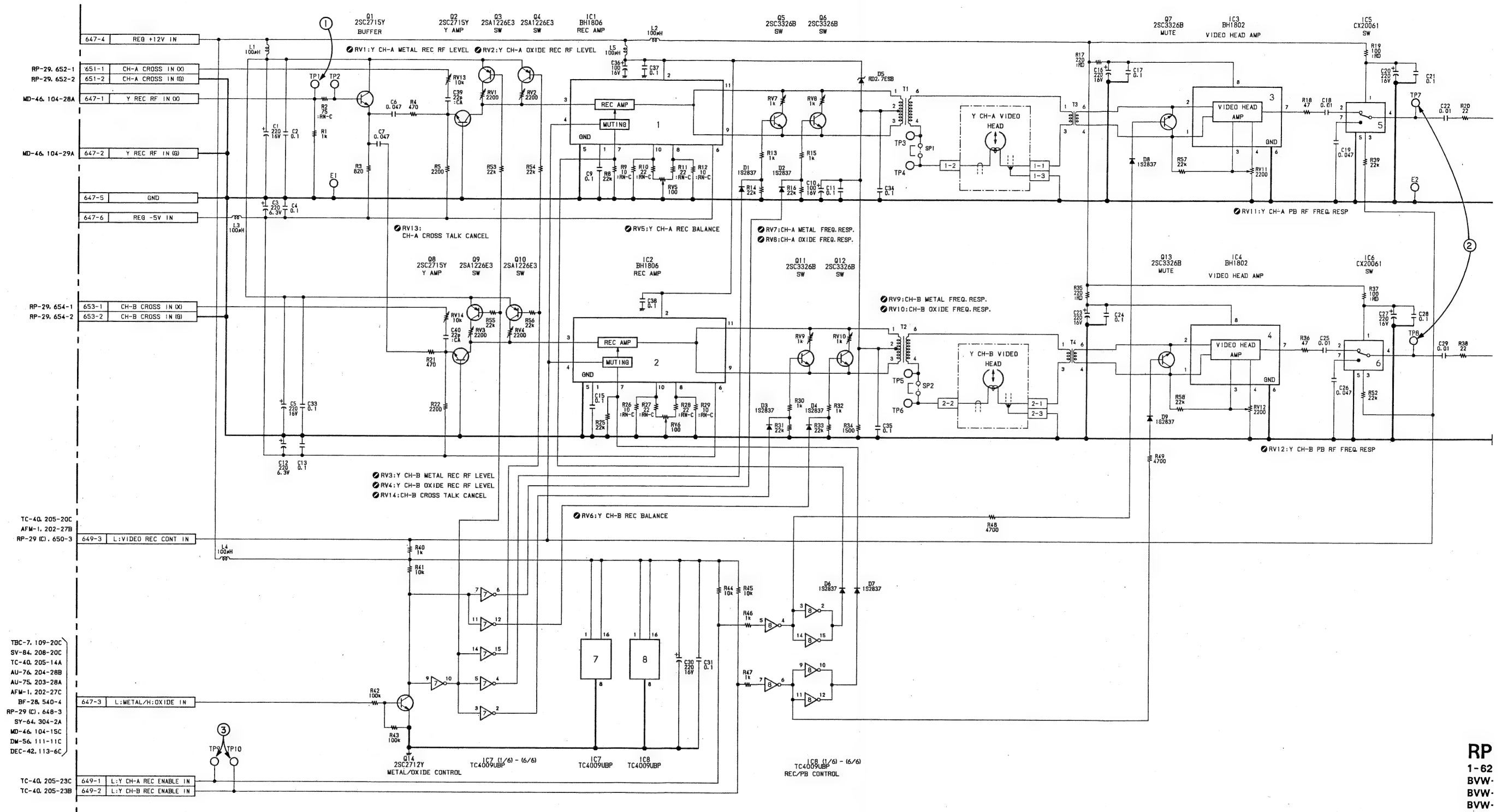
BVW-75

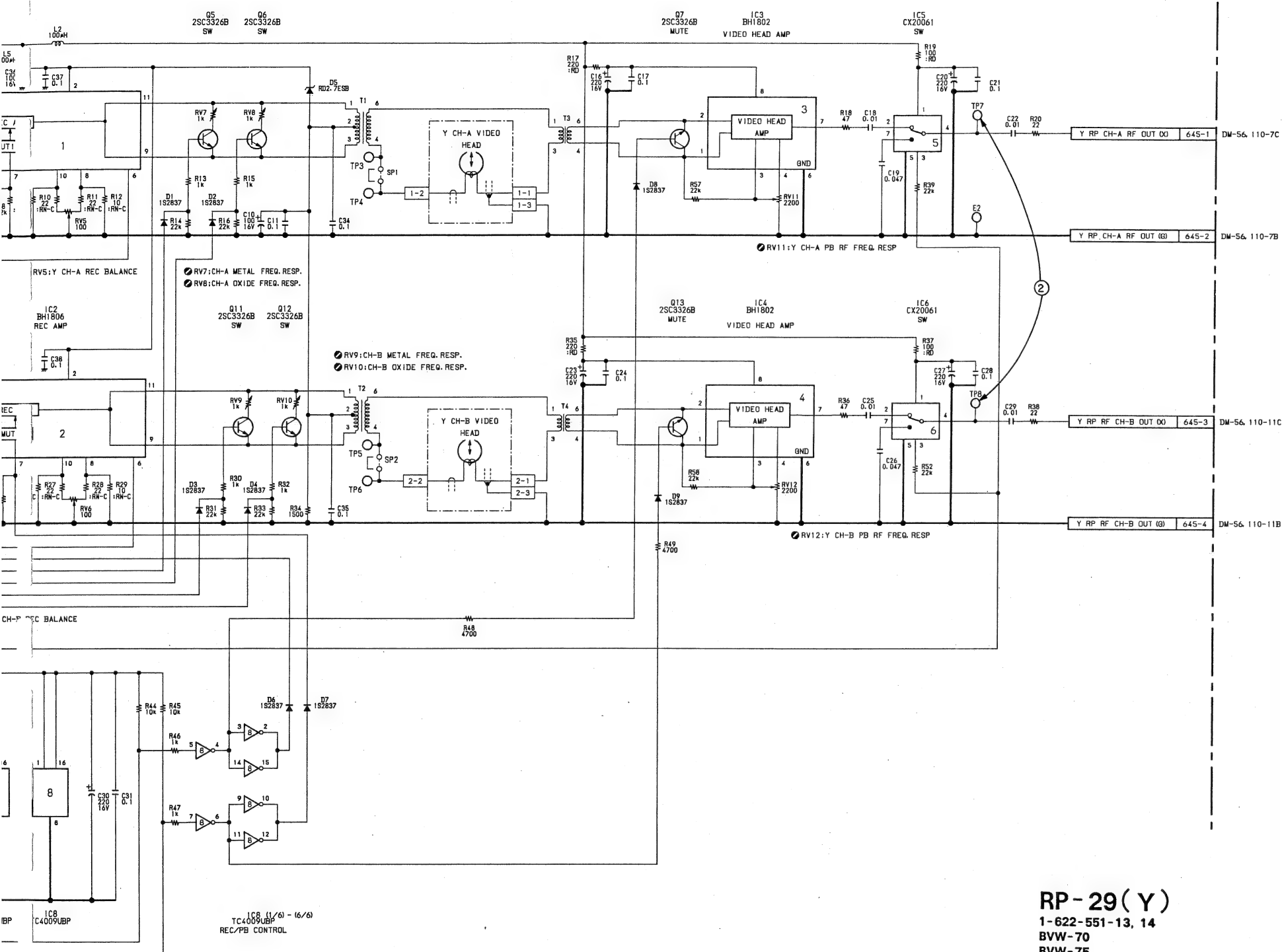
BVW-96



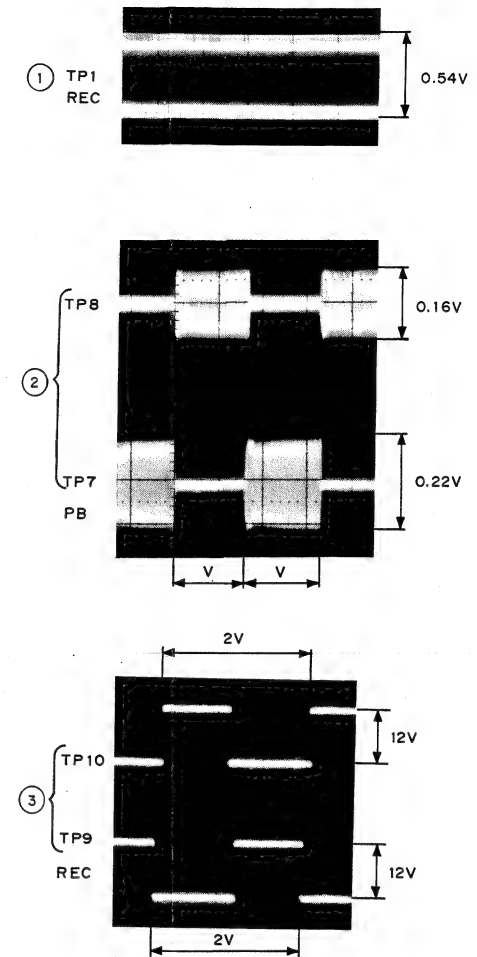


RP-29 (Y) ; Y REC/PB AMPLIFIER





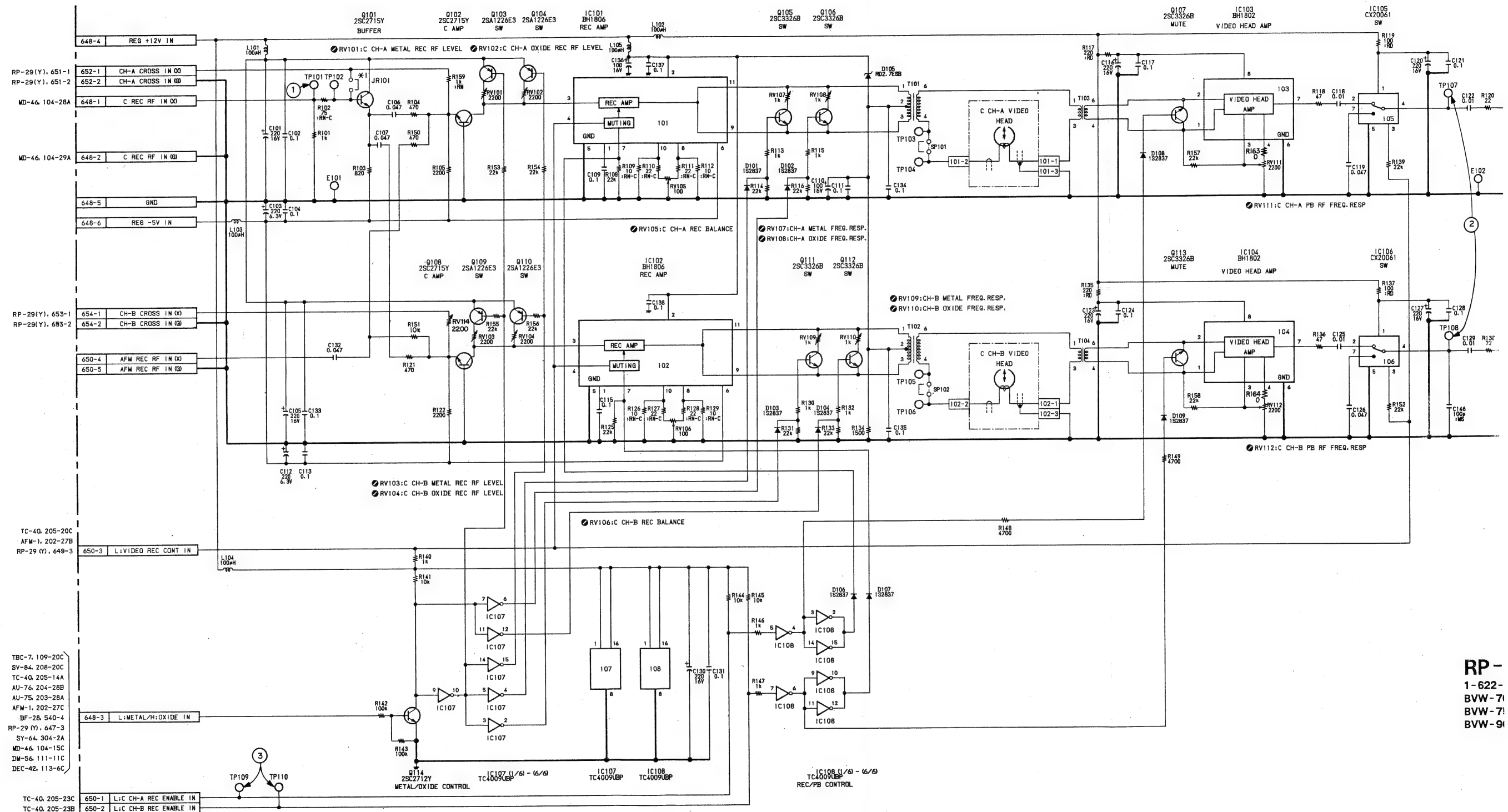
RP-29 (Y)
1-622-551-13, 14
BVW-70
BVW-75
BVW-96

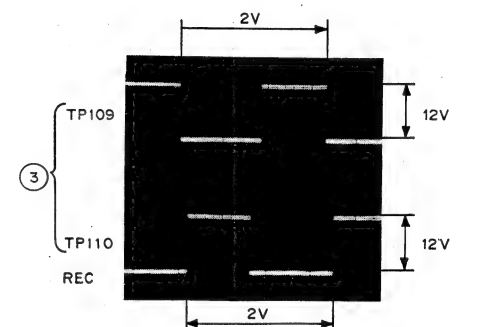
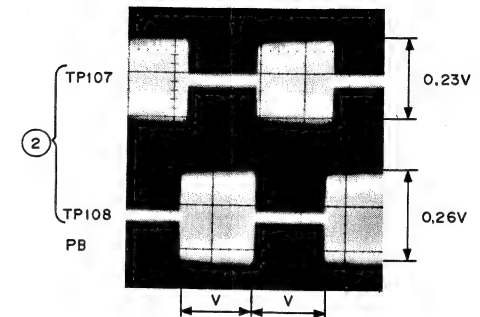
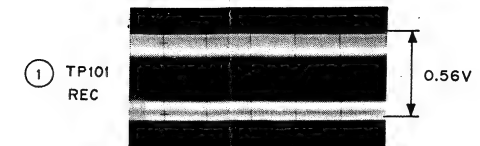
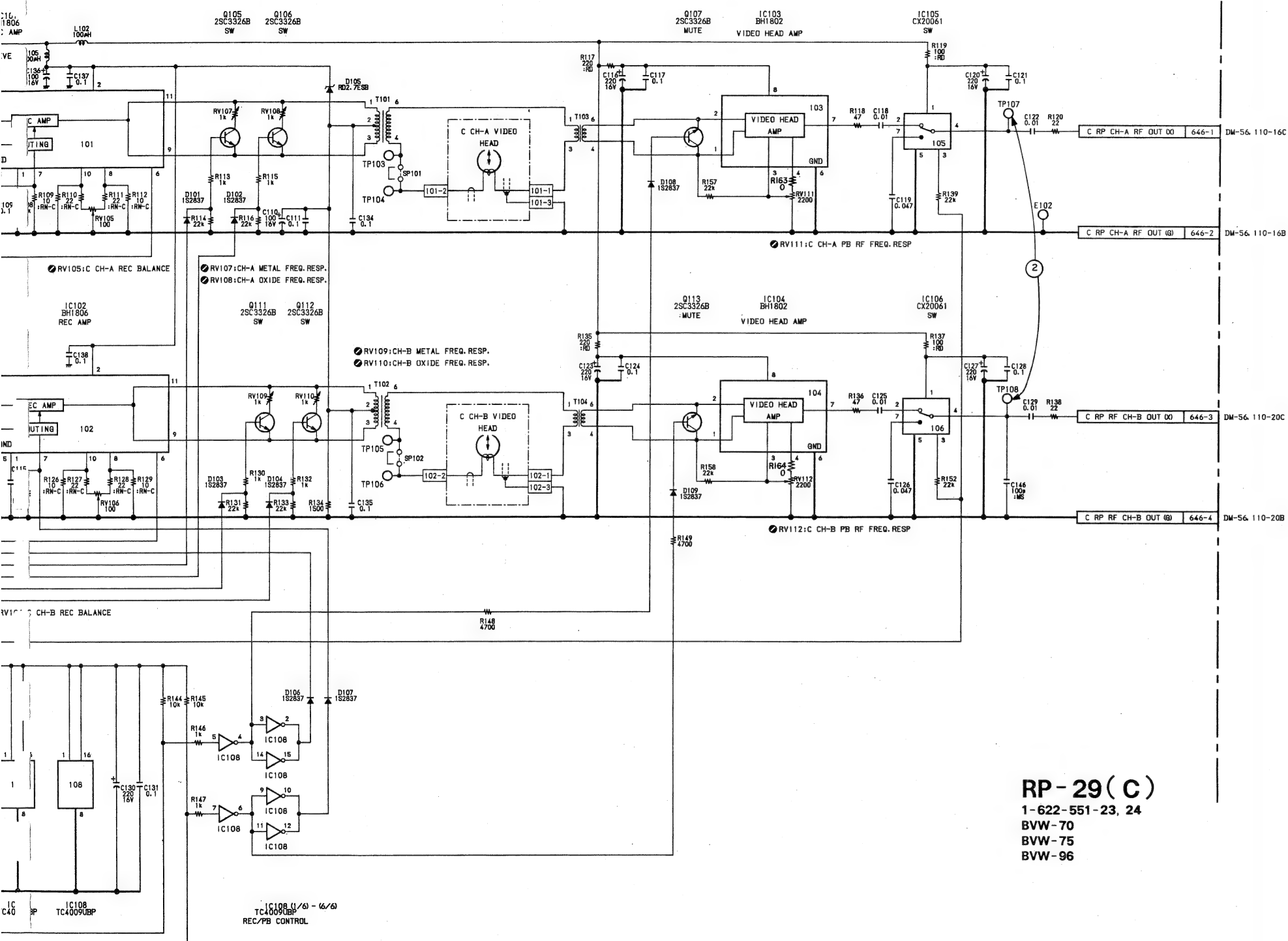


RP-29 (C) ; C REC/PB AMPLIFIER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	JR101 ADDED	UC; S/N 17065 ~ J; S/N 13244 ~

RP-
1-622-
BVW-71
BVW-71
BVW-91

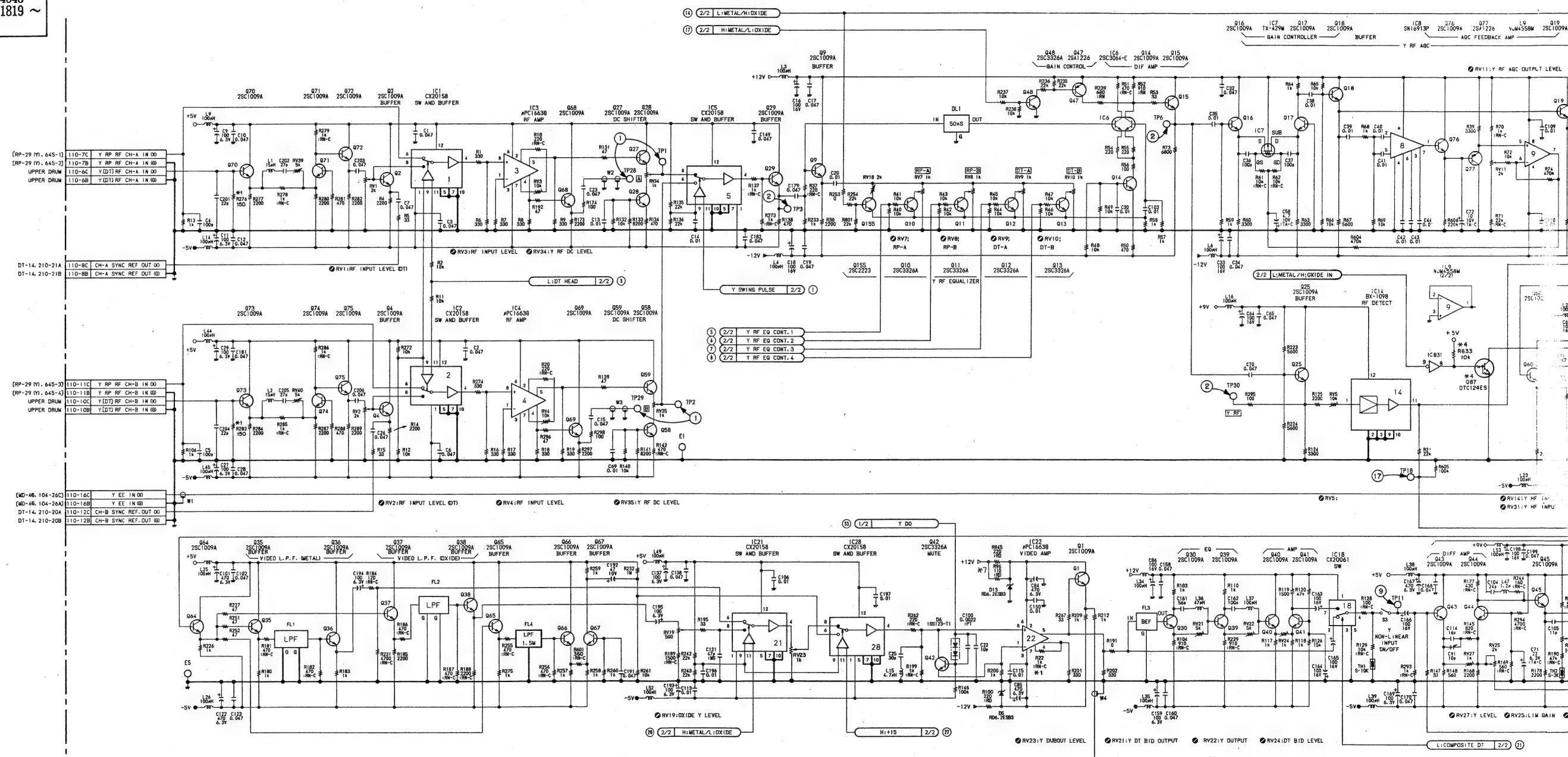


DM-56 (1/2) ; Y DEMODULATOR

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	C157 16pF→24pF R22 1k DELETED R276 470 → 150 R283 470 → 150	UC; S/N 13226 ~ J; S/N 11304 ~
*2	RV32 2k → 5k	UC; S/N 13781 ~ J; S/N 11569 ~
*3	C79 3pF → 5pF	UC; S/N 14369 ~ J; S/N 11669 ~
*4	Q87 DTC124ES ADDED R632 560 ADDED R633 10k ADDED	UC; S/N 14548 ~ J; S/N 11819 ~

MARK	CHANGE INFORMATION	SERIAL NO.
*5	C117 470 → 330 C119 470 → 330	UC; S/N 15667 ~ J; S/N 12319 ~
*6	RV26 50k → 100k RV30 50k → 100k RV36 50k → 100k	UC; S/N 15737 ~ J; S/N 12419 ~
*7	R96 220 → 110	UC; S/N 16544 ~ J; S/N 12874 ~

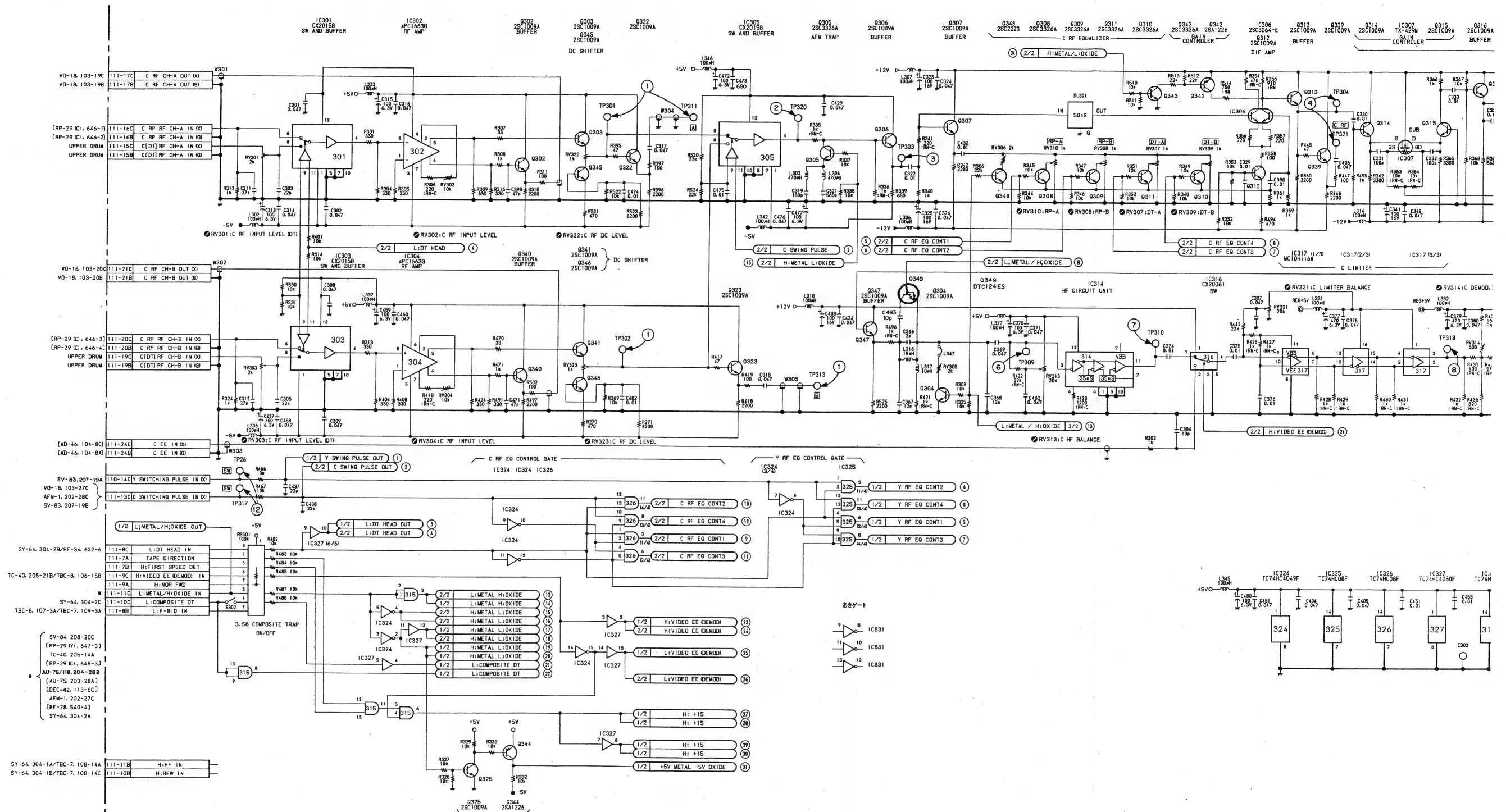


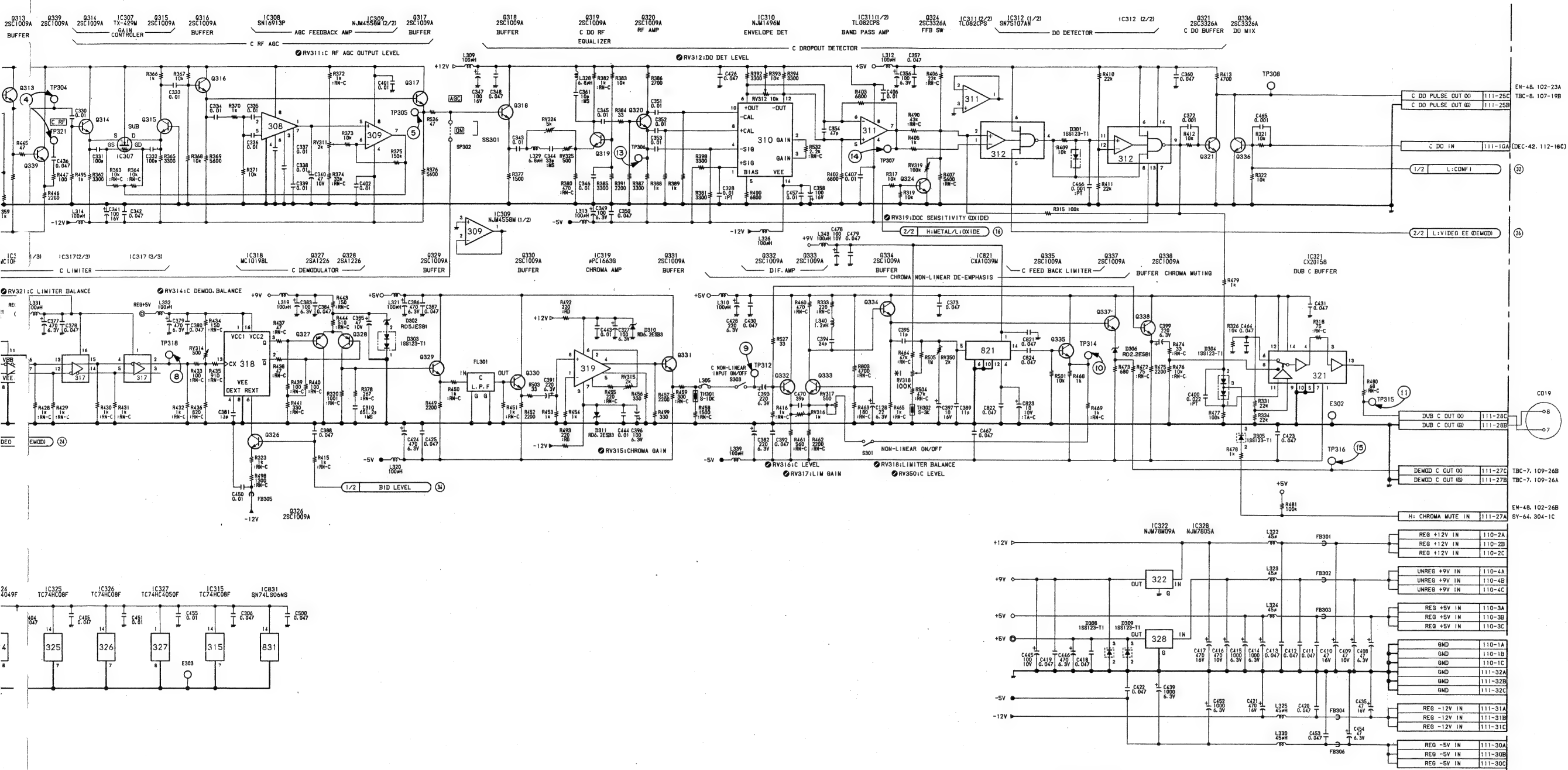


1-622-545-15, 16
BVW-65 BVW-75
BVW-95 BVW-96

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	RV318 50k→ 100k	UC; S/N 15737 ~ J; S/N 12419 ~

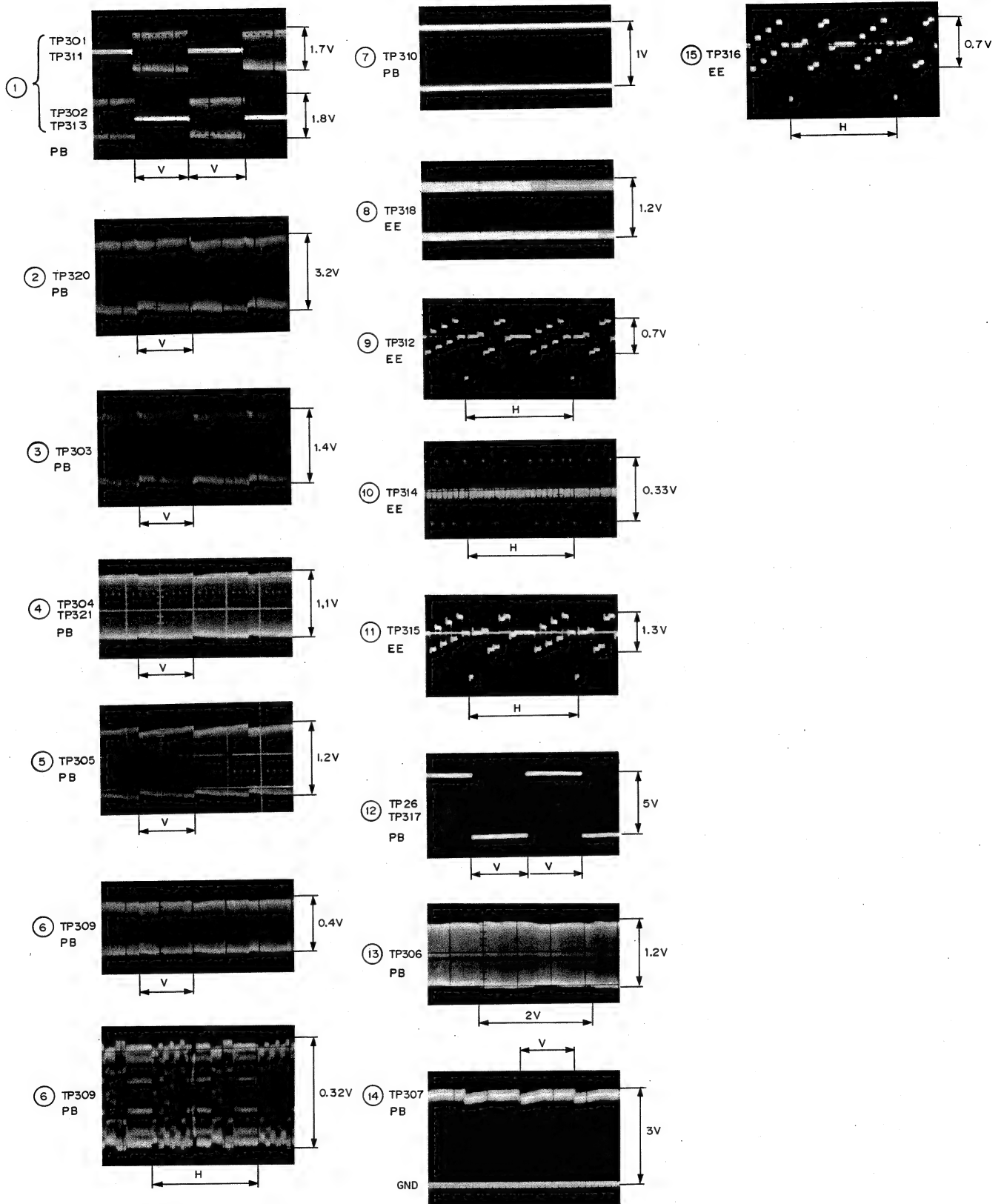




[] ; RECORDER ONLY

DM-56 (2/2)

1-622-545-15, 16
BVW-65 BVW-75
BVW-95 BVW-96

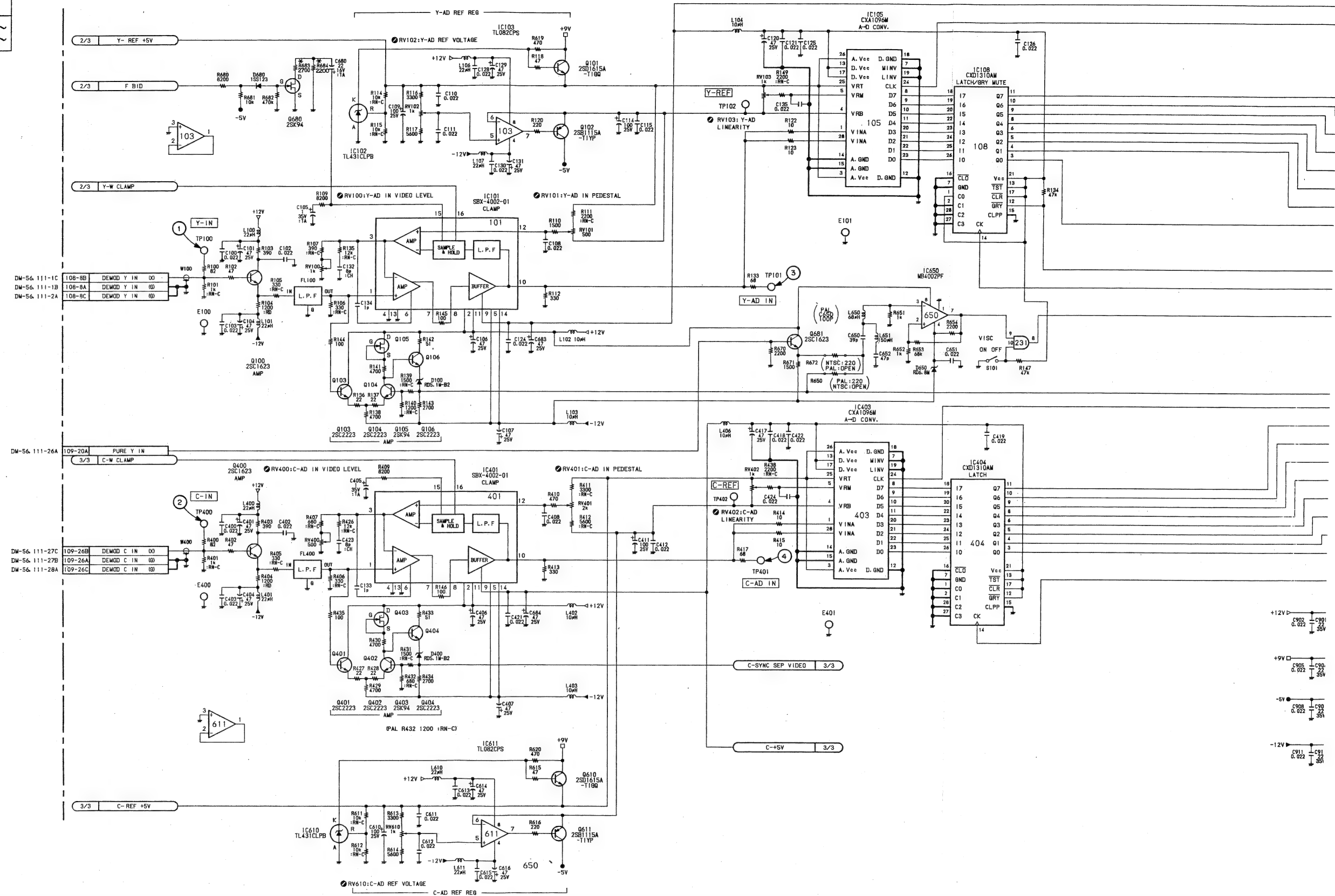


TBC-7 (1/3) ; A/D CONVERTER

UC ; S/N 13028 through 13325
J ; S/N 11104 through 11303

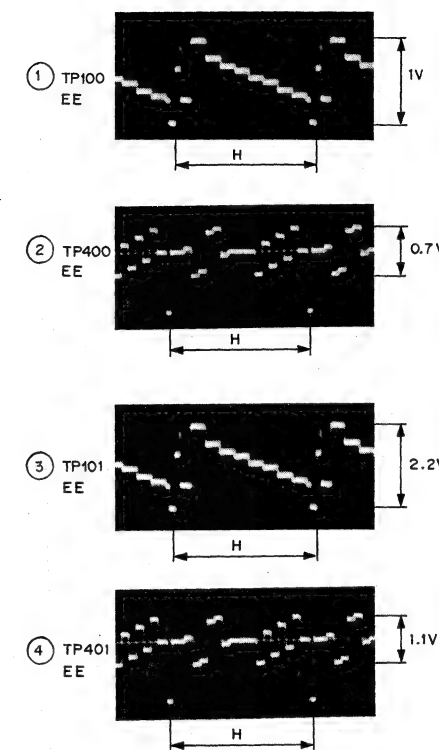
NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*	R683 1.2k → 2.7k R684 100k → 2.2k	UC; S/N 13176 ~ J; S/N 11204 ~



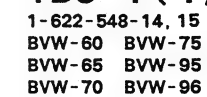
16-96 (a)

16-97 (a)

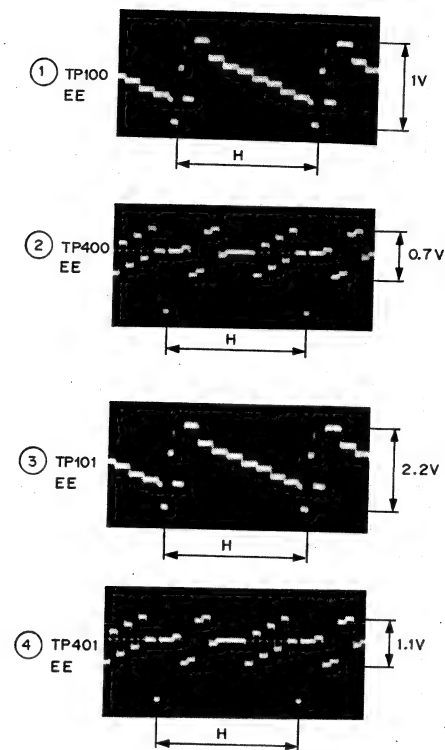
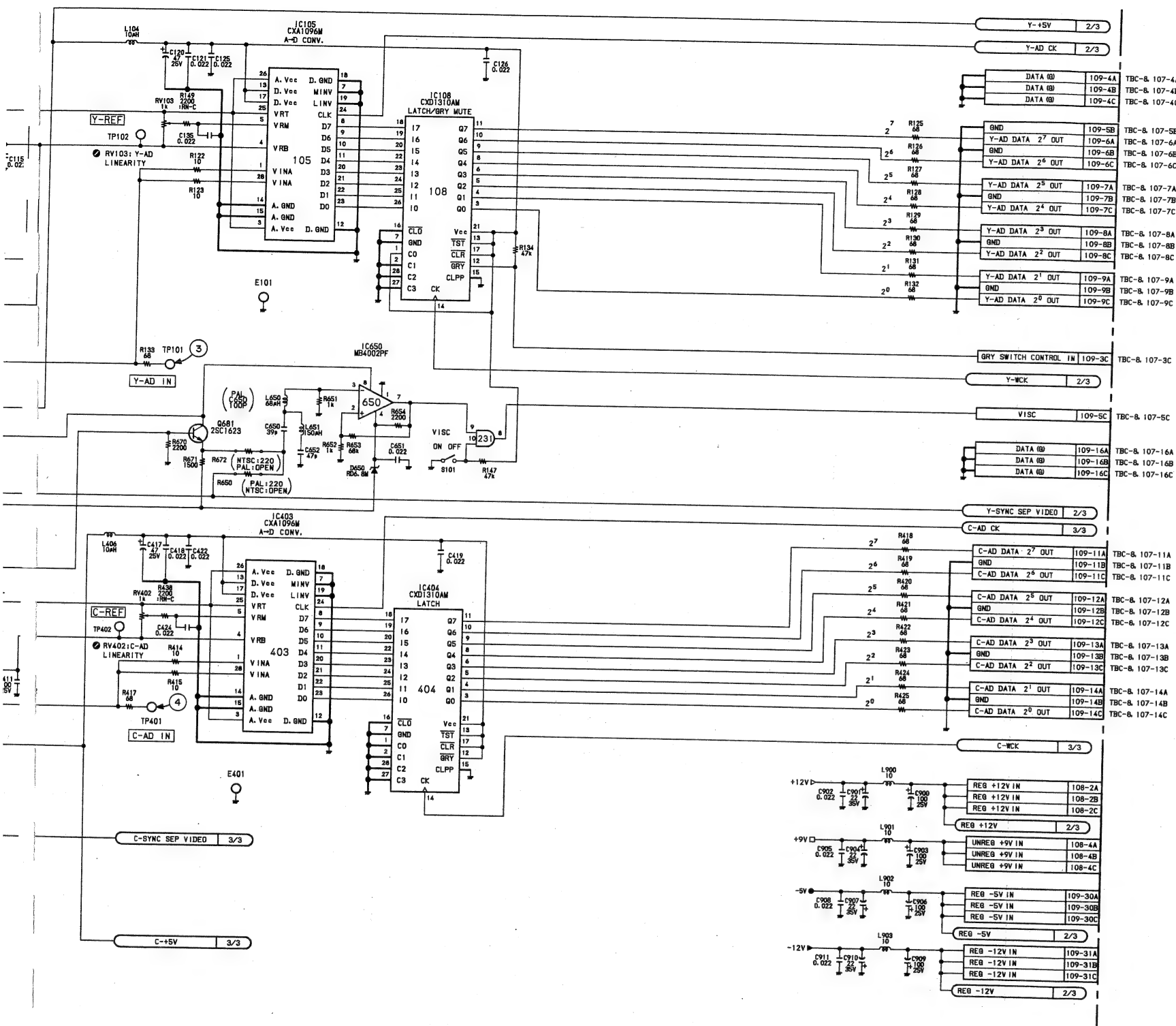


SLIT CONFIGURATION (SHORT)	
NTSC	PAL
SL205	SL200
	SL505

UC ; S/N 13326 and higher
J ; S/N 11304 and higher



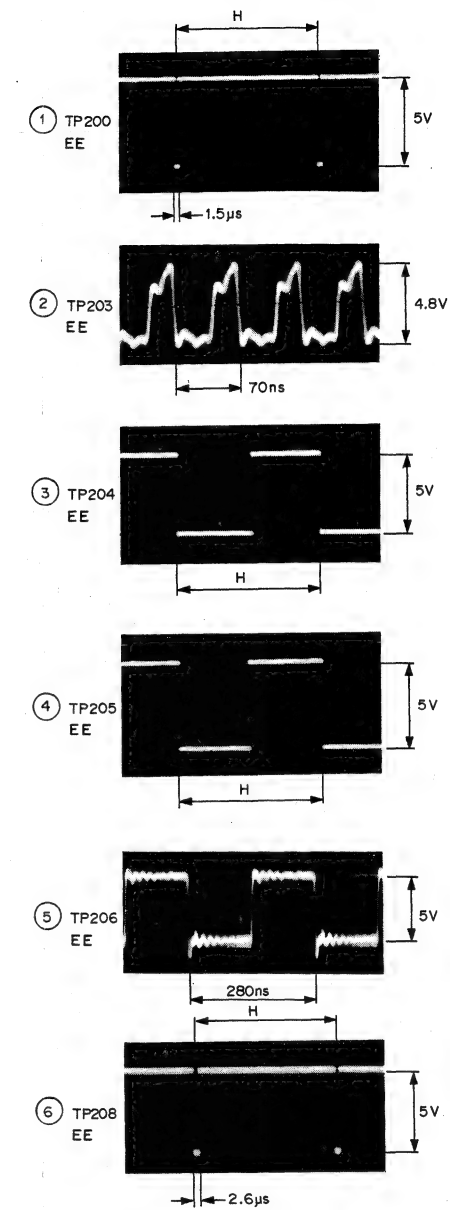
16-97 (b)



TBC-7(1/3)

1-622-548-14, 15
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96



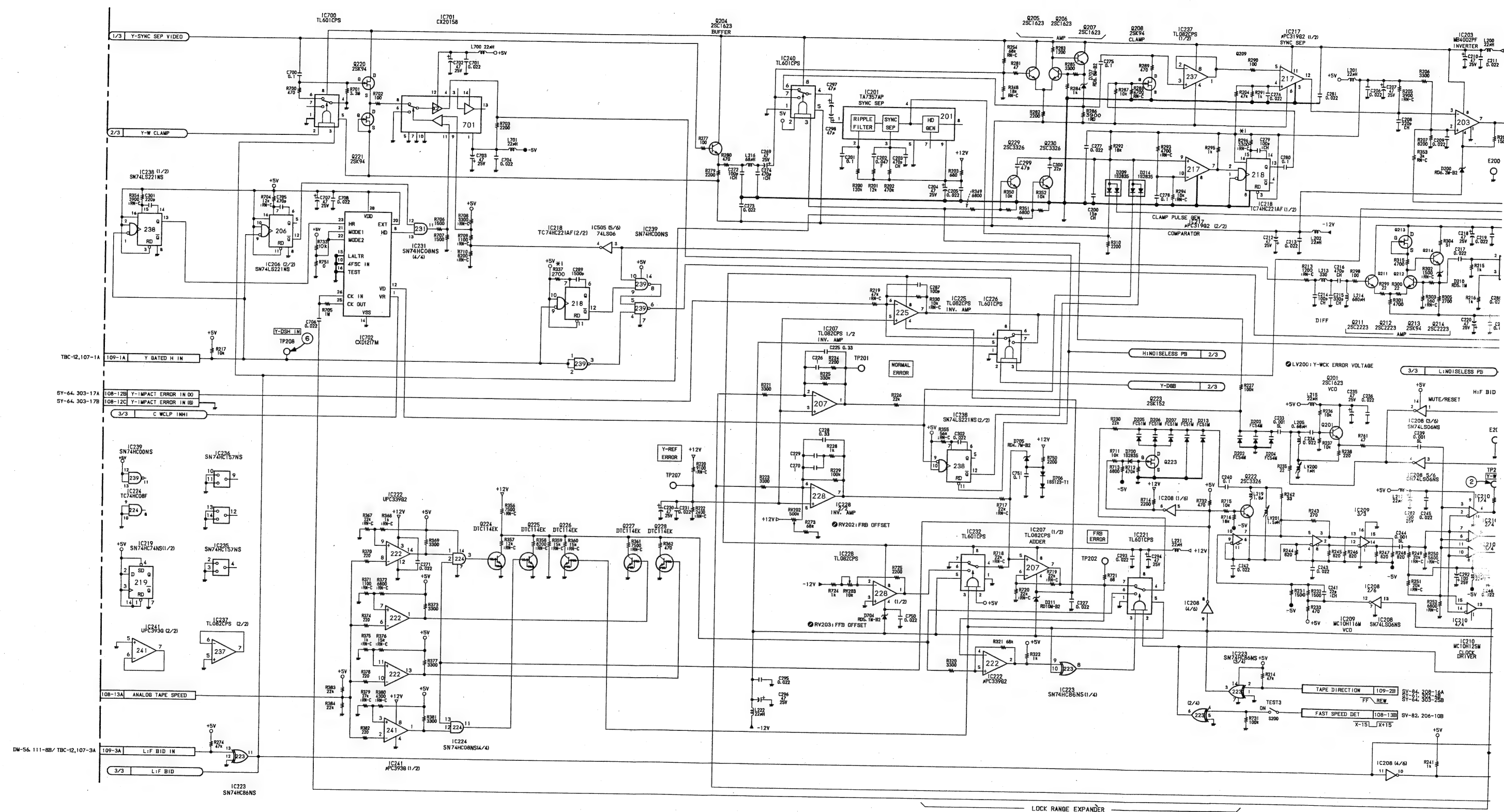


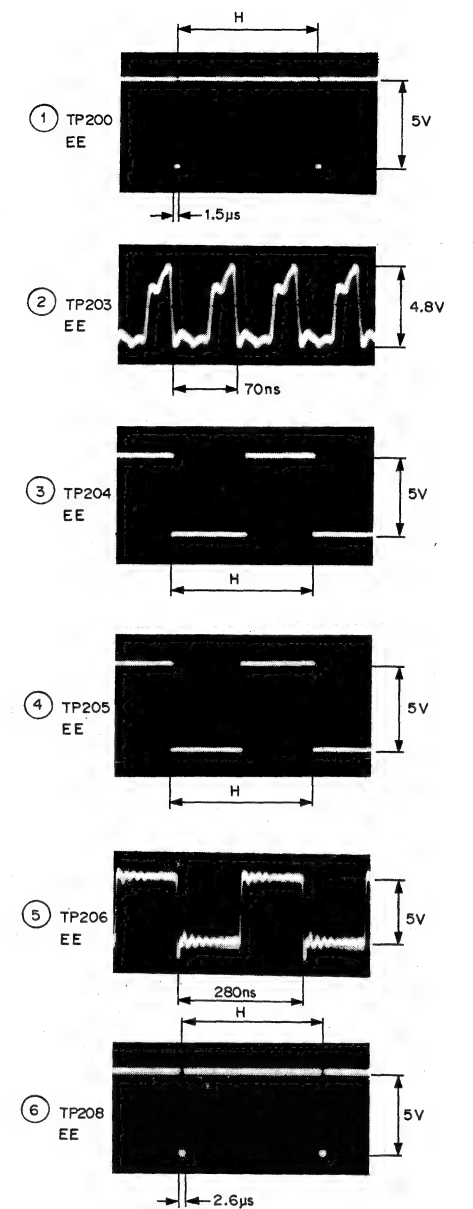
1-622-548-13
 BVW-60 BVW-70
 BVW-65 BVW-75
 BVW-95 BVW-96

[[]];DT PLAYER ONLY

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R296 3900 → 3300 R337 3300 → 2700	UC: S/N 16544 ~ J: S/N 12874 ~





1-622-548-14, 15
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

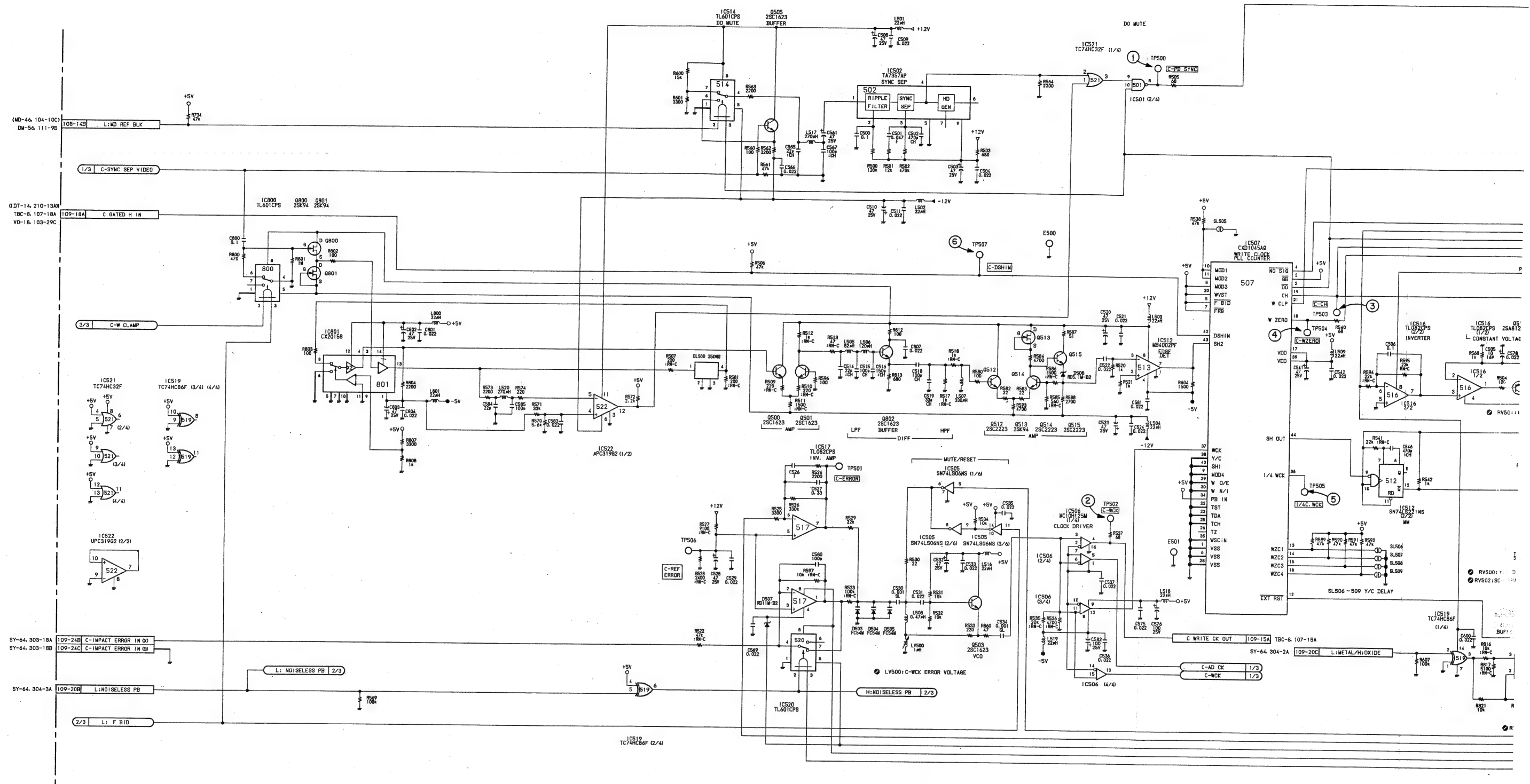
(());DT PLAYER ONLY

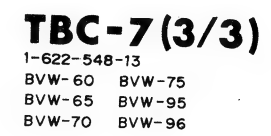
16-105 (b)

16-106 (b)

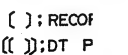
TBC-7 (3/3) ; C WRITE CLOCK GENERATOR

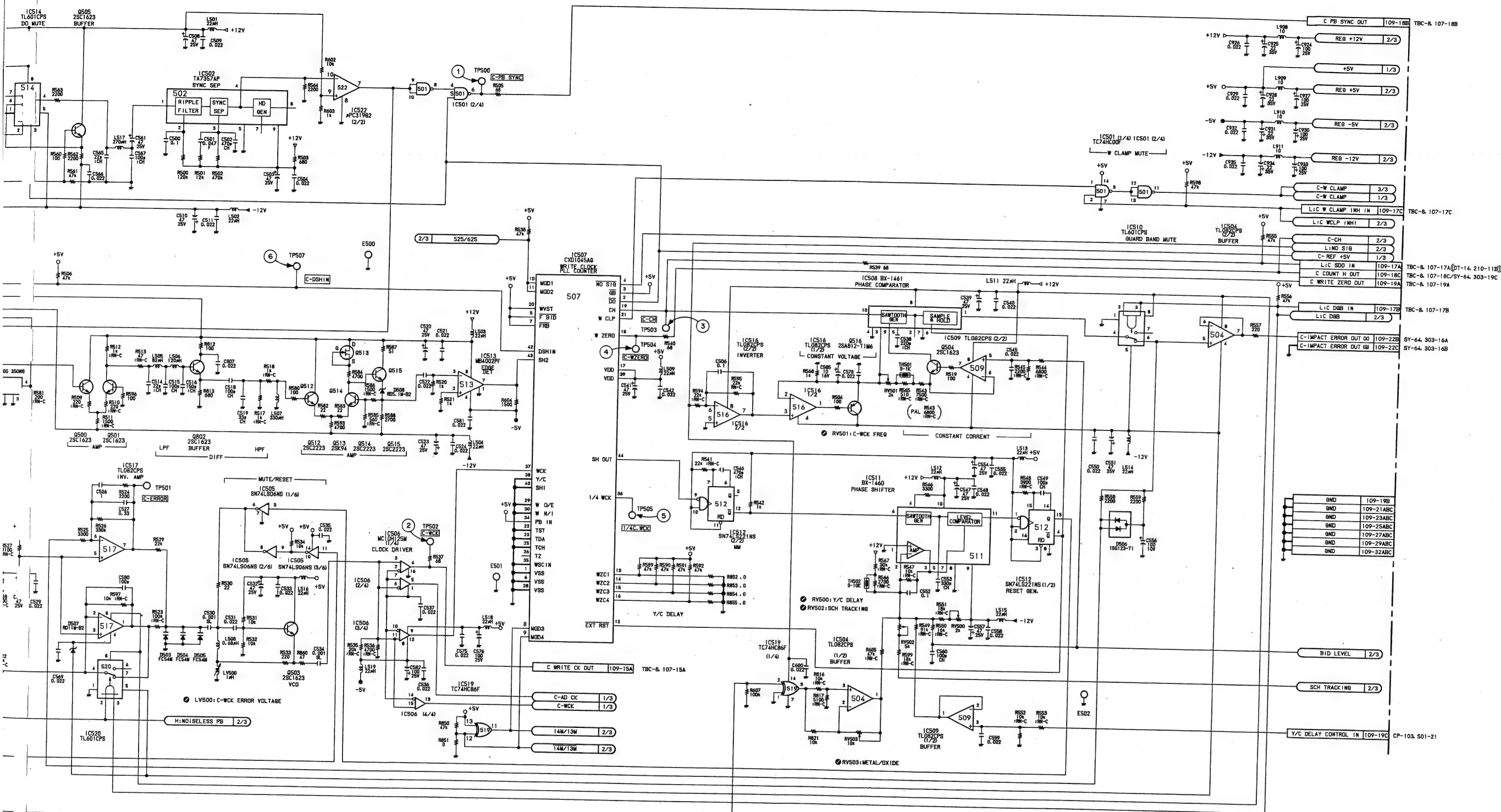
UC ; S/N 13028 through 13325
J ; S/N 11104 through 11303





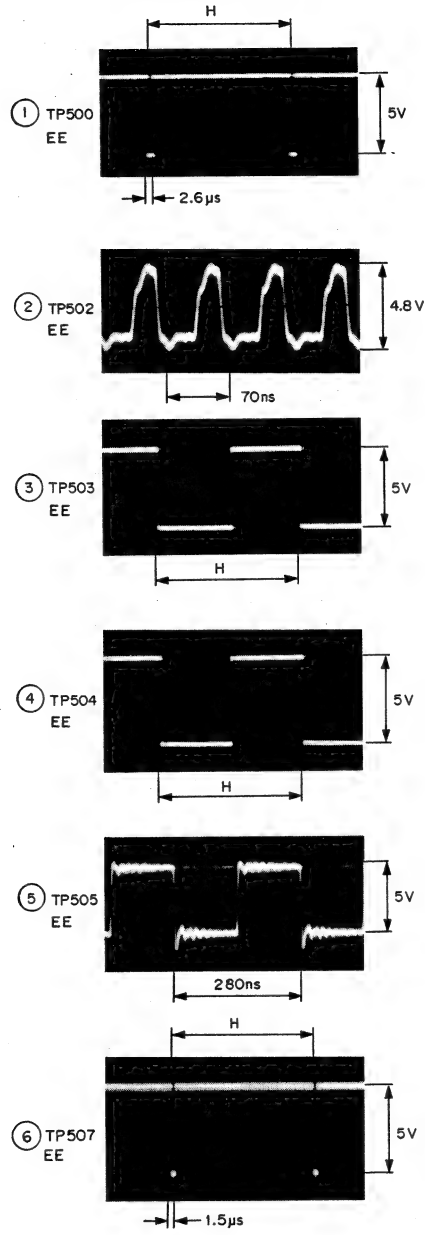
UC ; S/N 13326 and higher
J ; S/N 11304 and higher

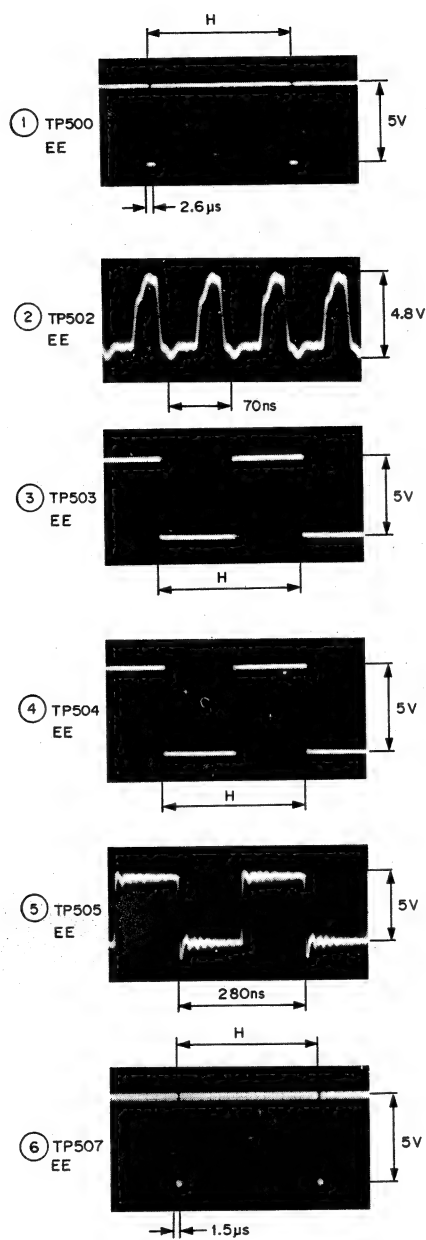




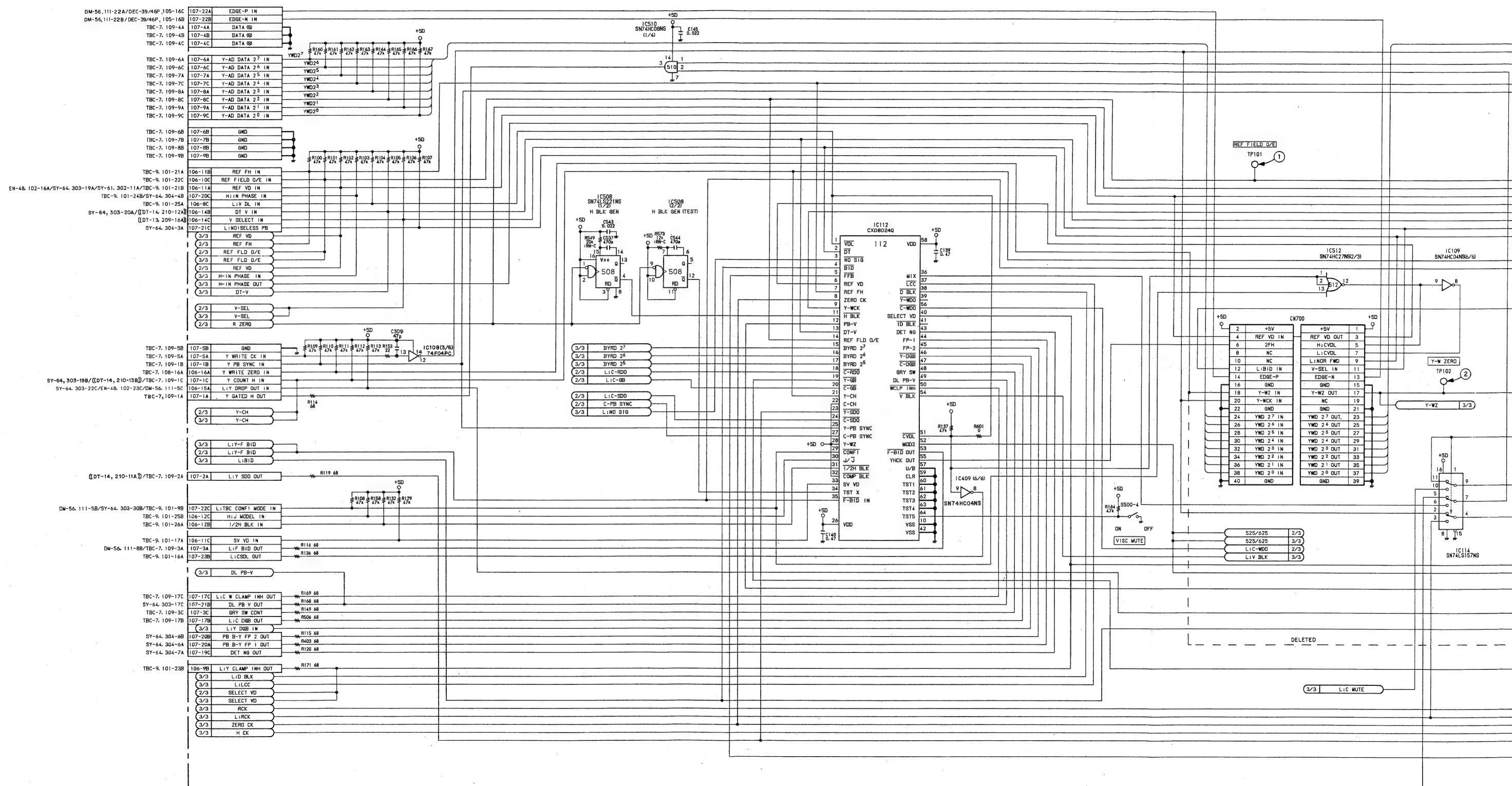
(): RECORDER ONLY
 (()): DT PLAYER ONLY

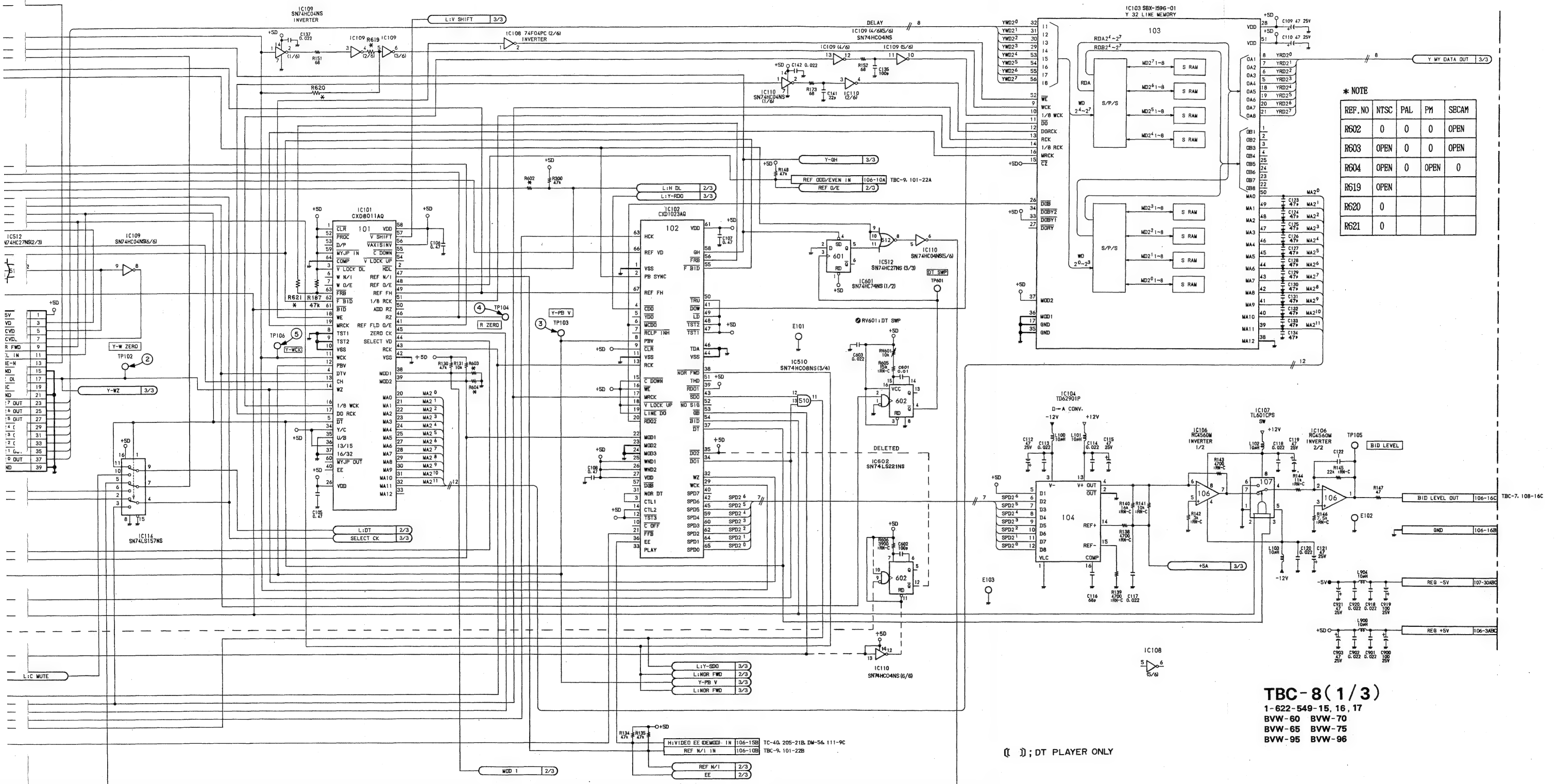
TBC-7 (3/3)
 1-622-548-14, 15
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96

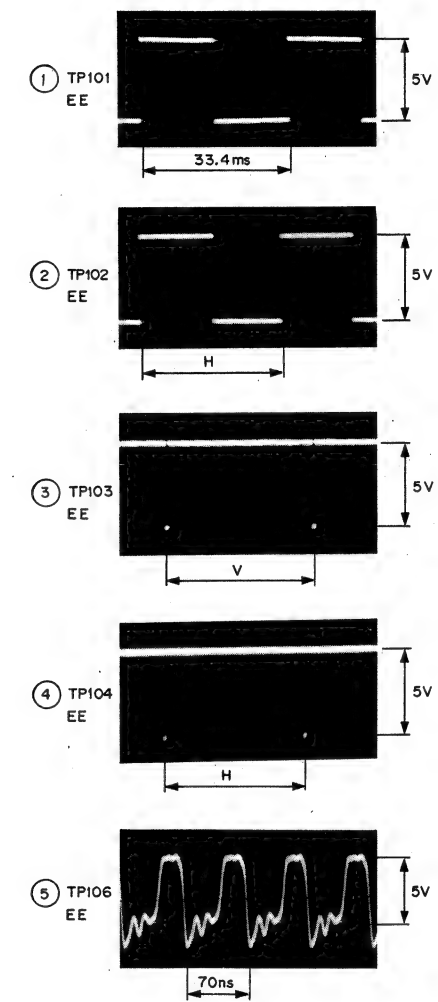




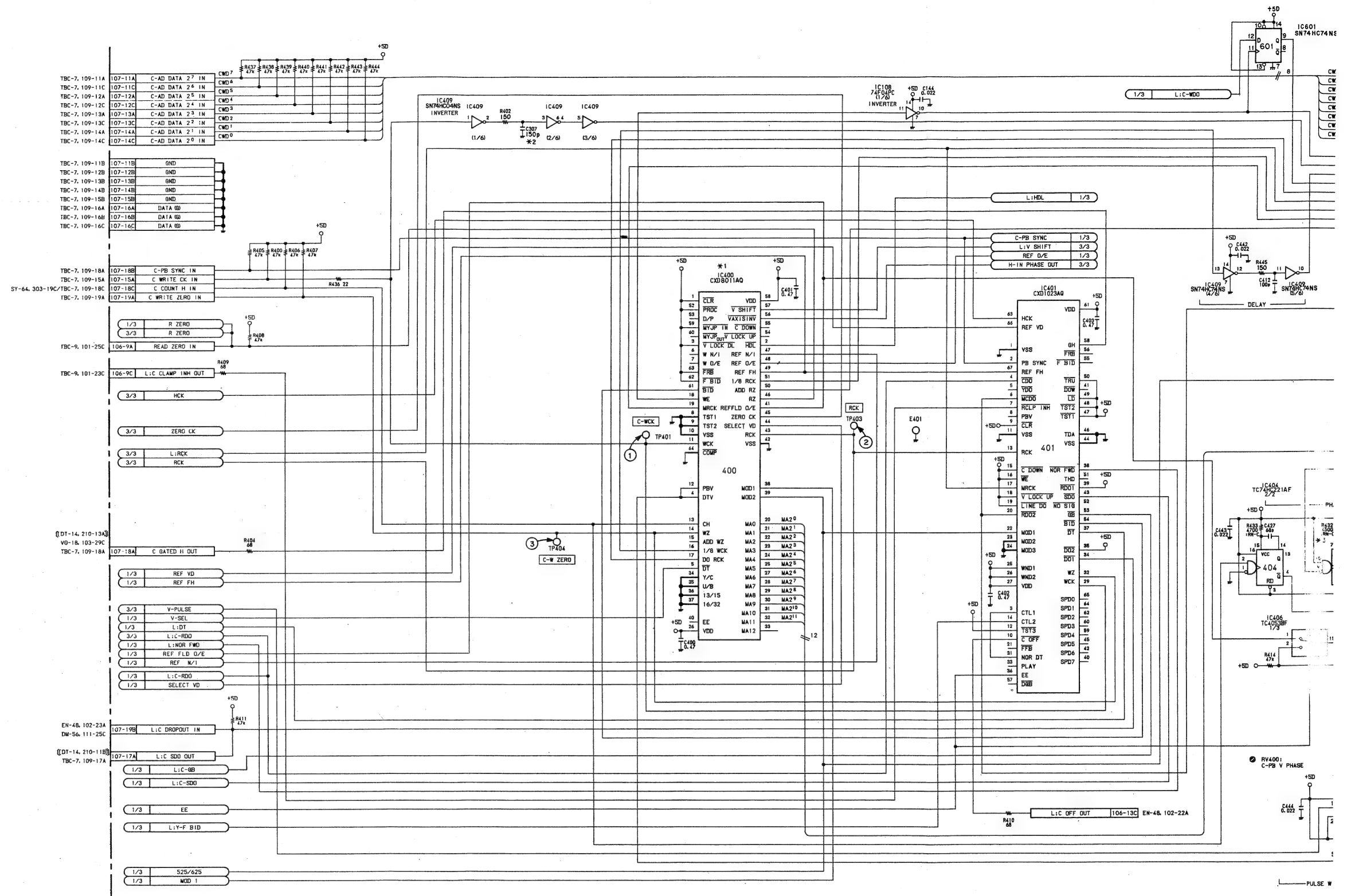
TBC-8 (1/3) ; Y MAIN MEMORY







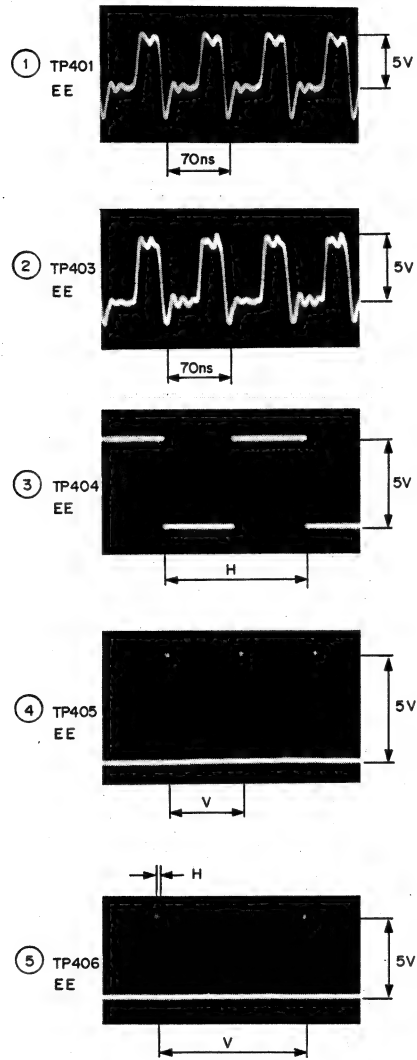
MARK	CHANGE INFORMATION	SERIAL NO.
*1	IC400 CXD1022CQ → CXD8011AQ	UC; S/N 14657 ~ J; S/N 11949 ~
*2	C307 68pF → 150pF	UC; S/N 15667 ~ J; S/N 12319 ~
*3	R432 4700 → 4300	UC; S/N 16544 ~ J; S/N 12874 ~



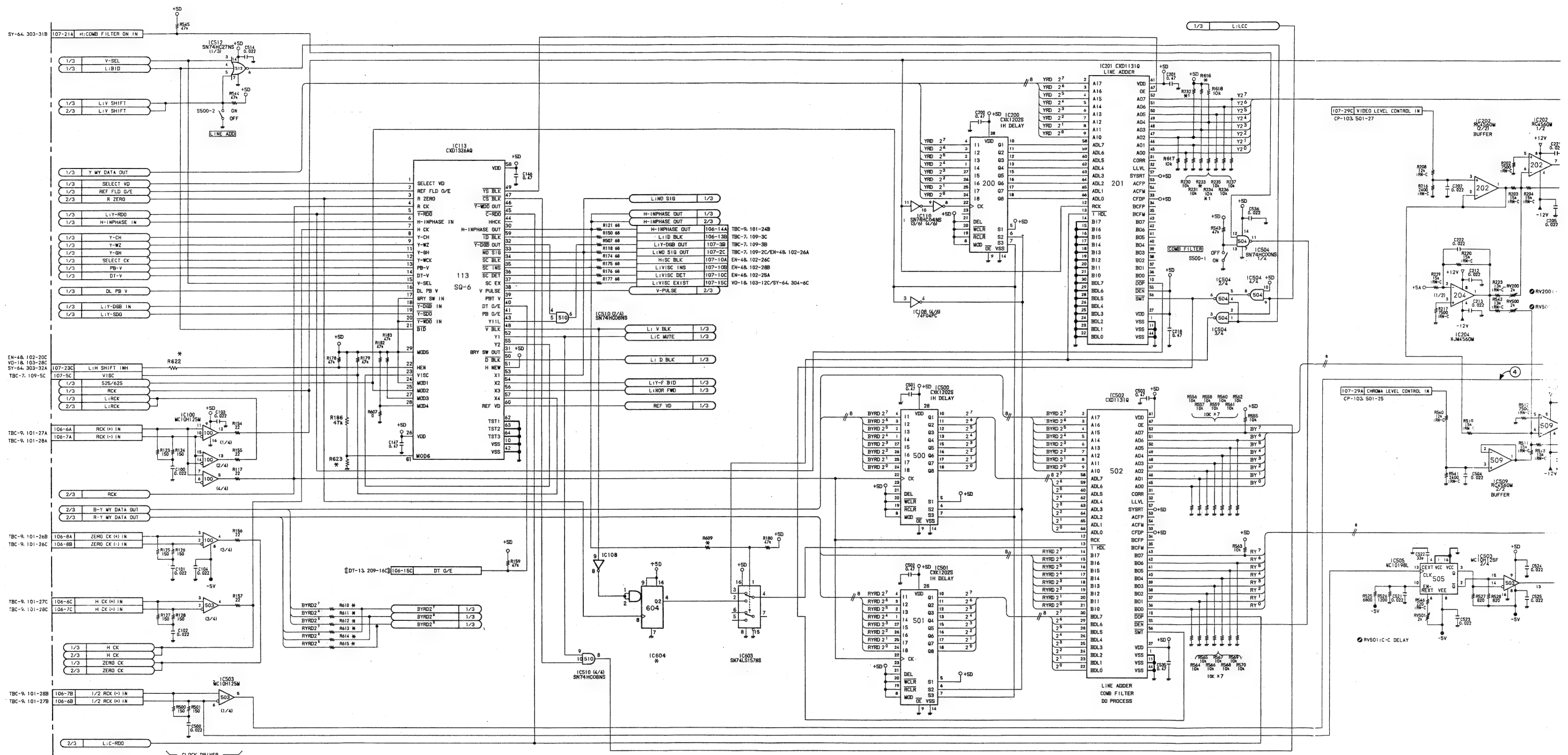
[[]] ; DT PLAYER ONLY

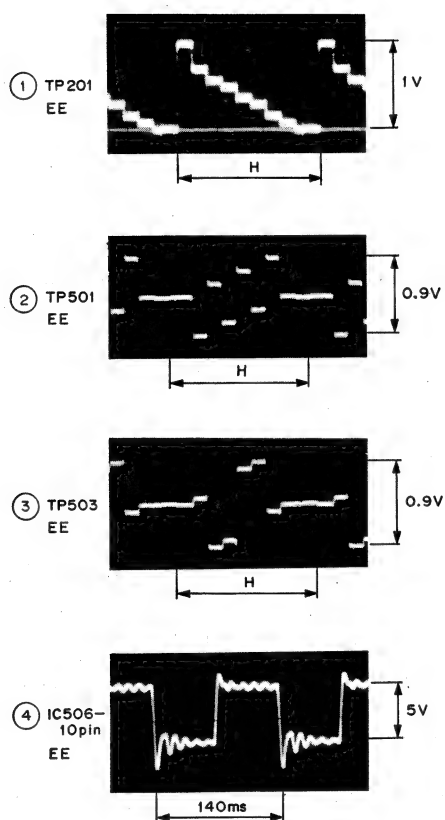


1-622-549-15, 16, 17
 BVW-60 BVW-70
 BVW-65 BVW-75
 BVW-95 BVW-96



TBC-8 (3/3) ; D/A CONVERTER
NR-25 ; Y DIGITAL NOISE REDUCTION

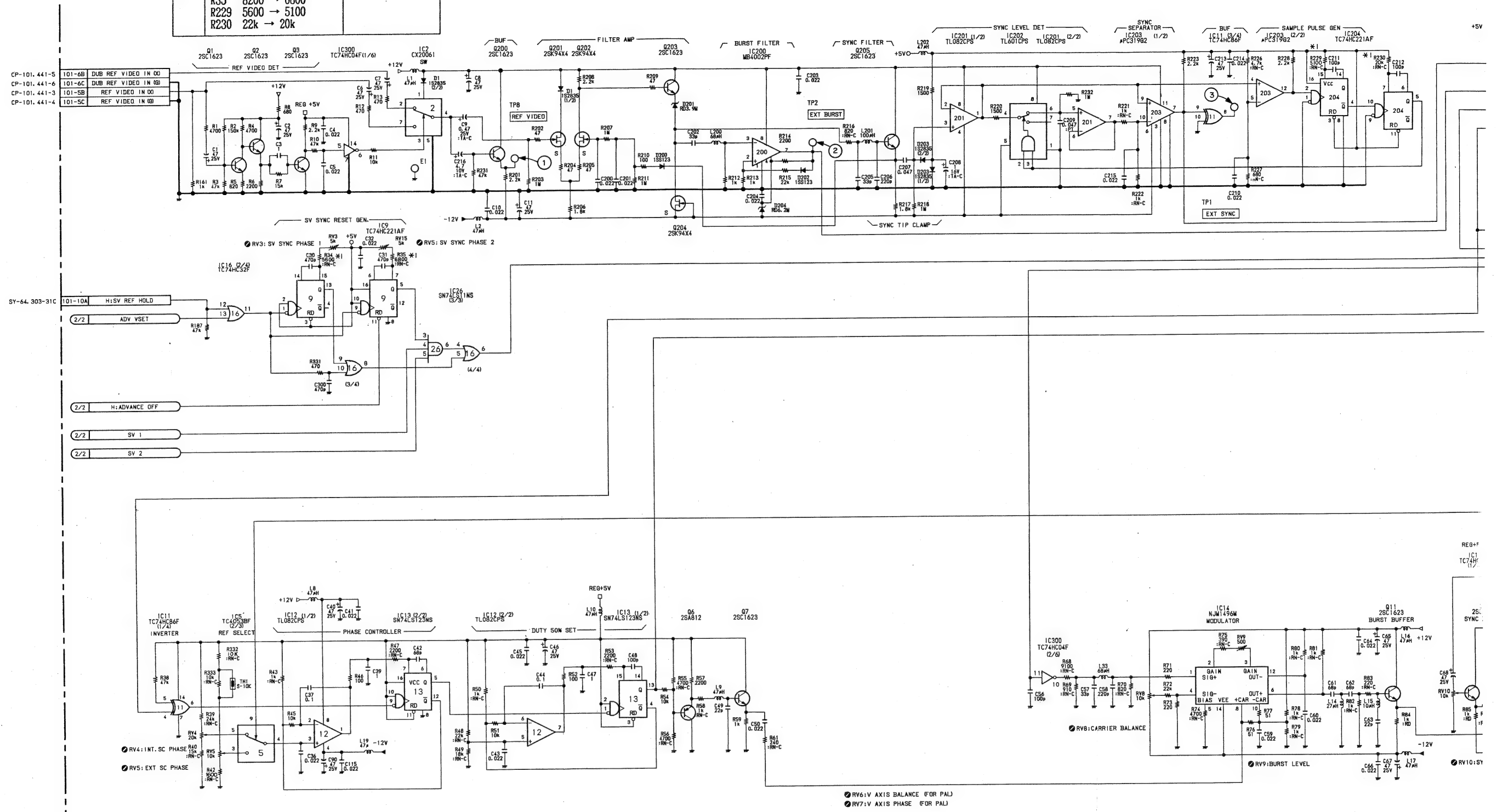


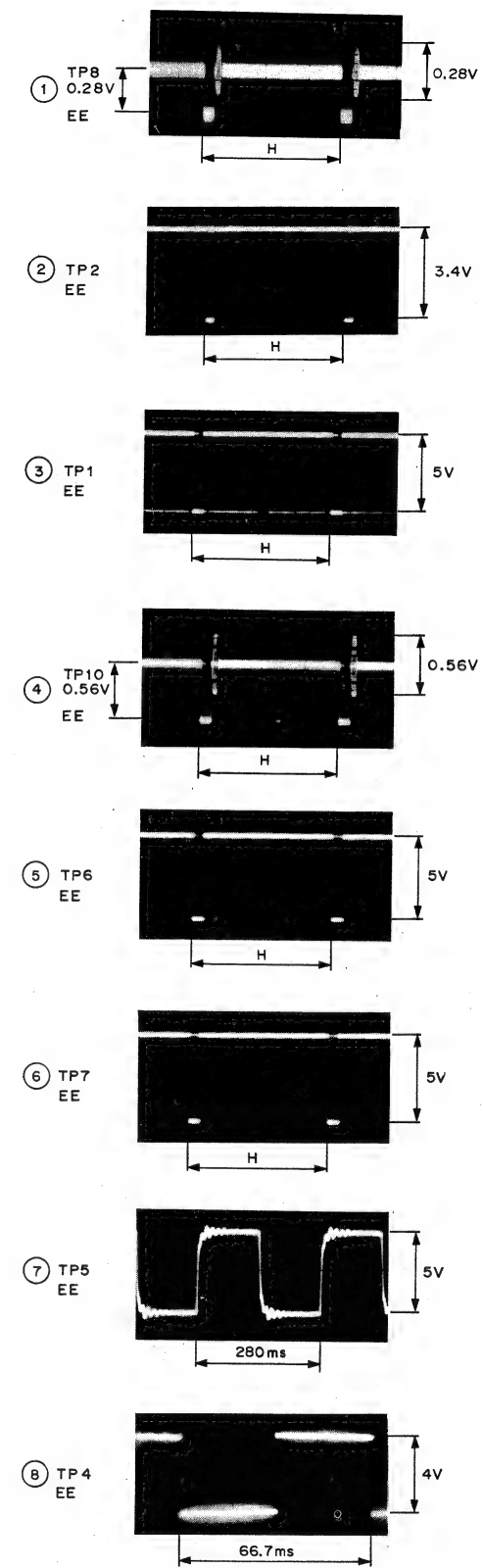


TBC-9 (1/2) ; REFERENCE SIGNAL GENERATOR

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R28 5600 → 5100 R29 10k → 11k R34 6800 → 5600 R35 8200 → 6800 R229 5600 → 5100 R230 22k → 20k	UC: S/N 16544 ~ J: S/N 12874 ~



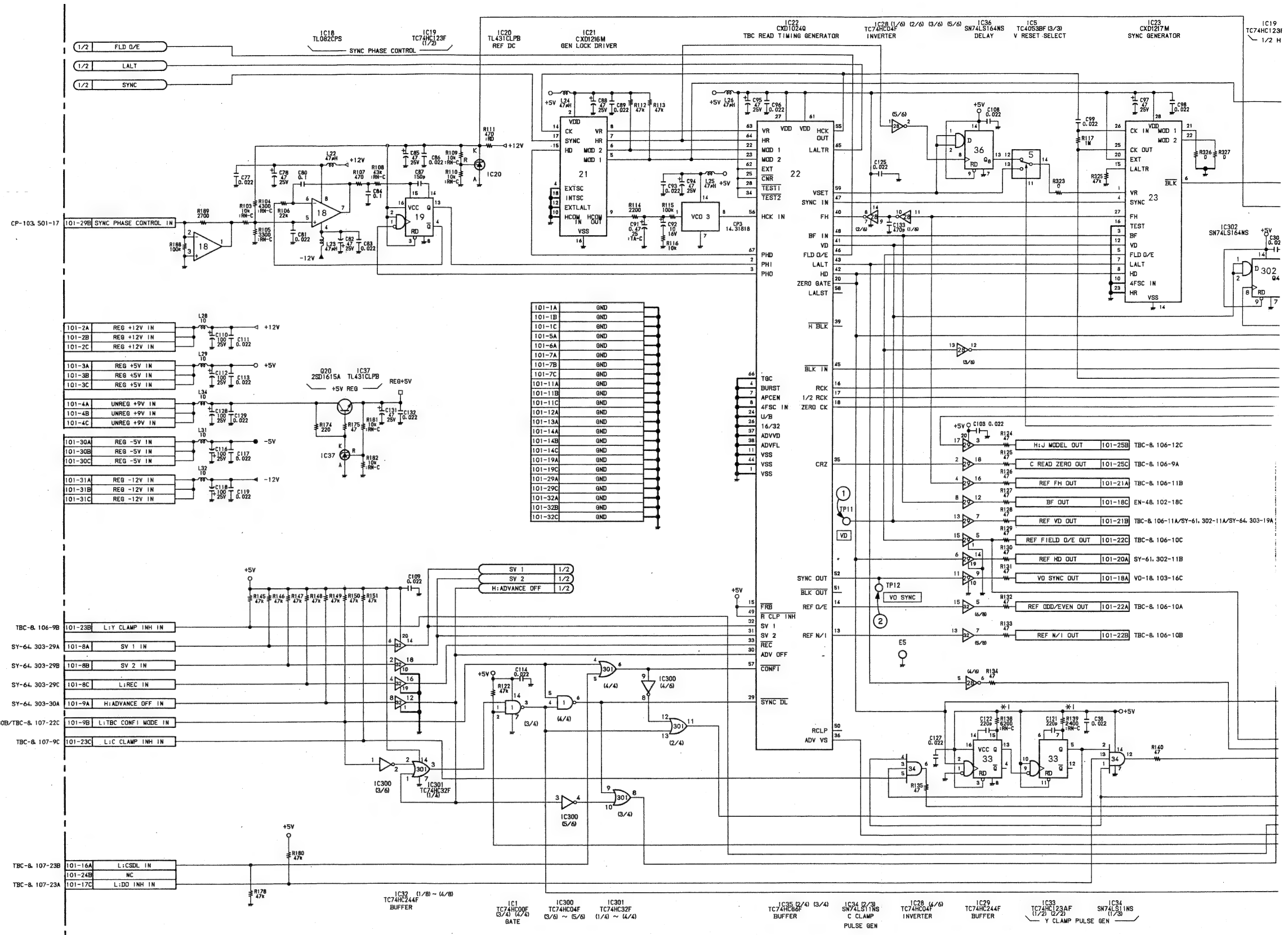


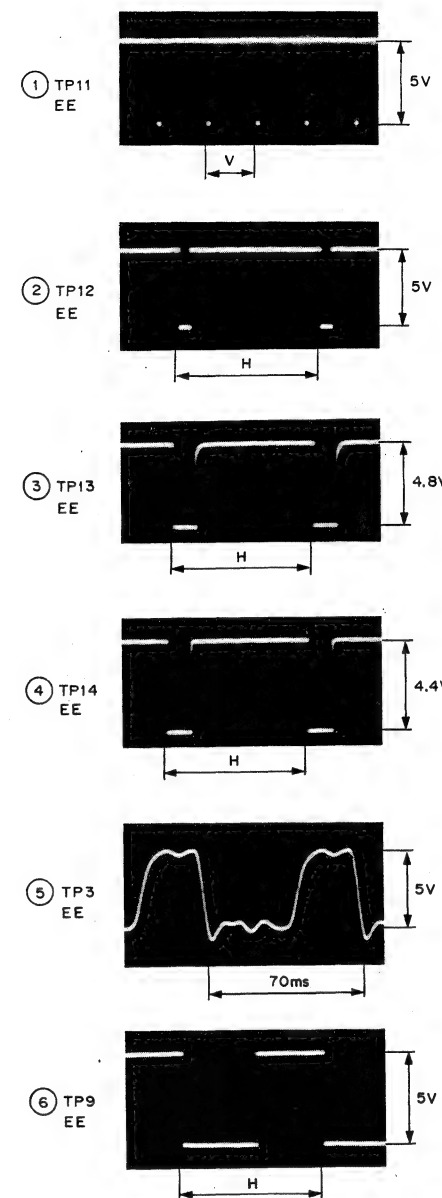
1-622-550-13
 BVW-60 BVW-70
 BVW-65 BVW-75
 BVW-95 BVW-96

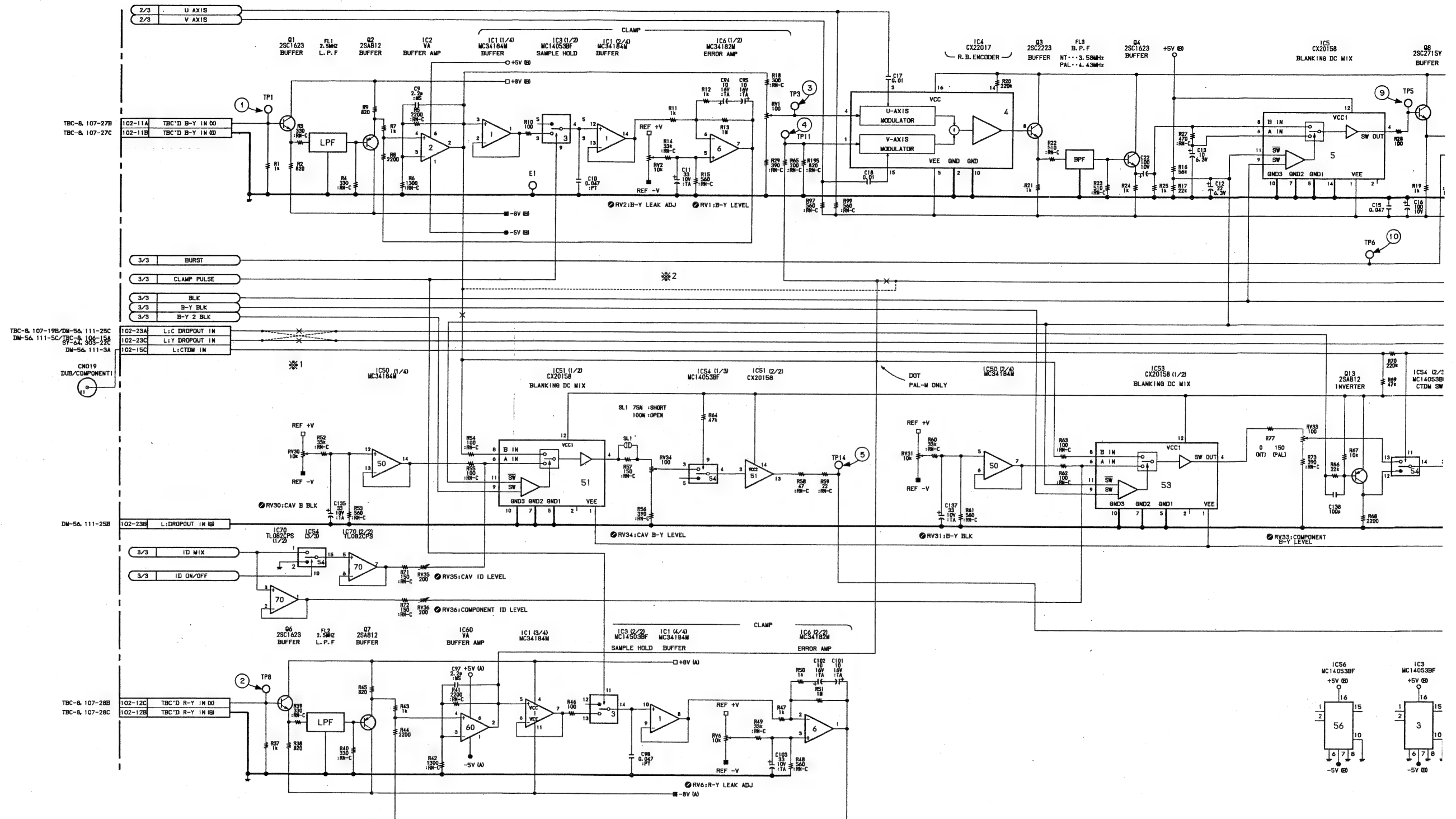
TBC-9 (2/2) ; TBC READ TIMING GENERATOR

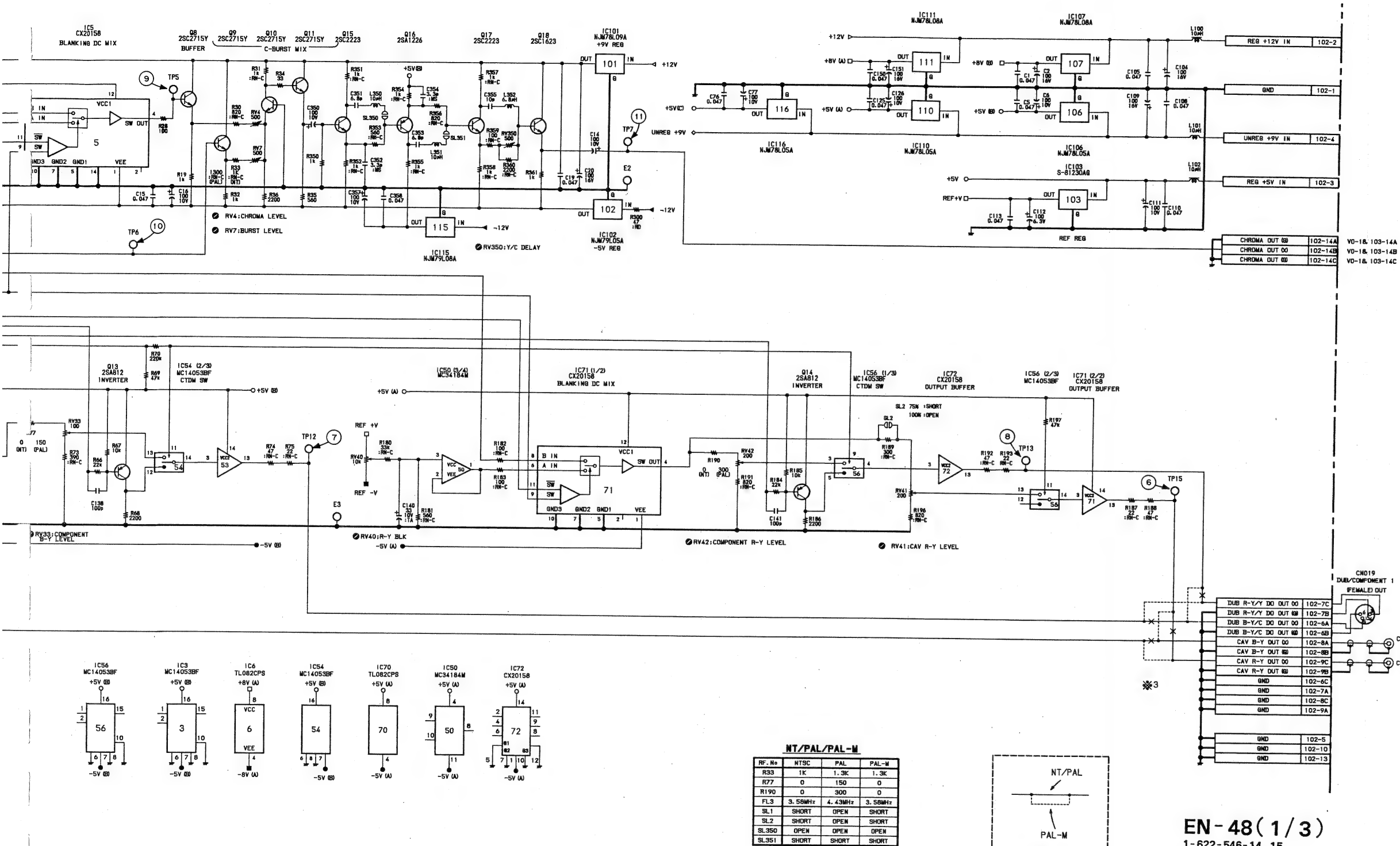
NOTE

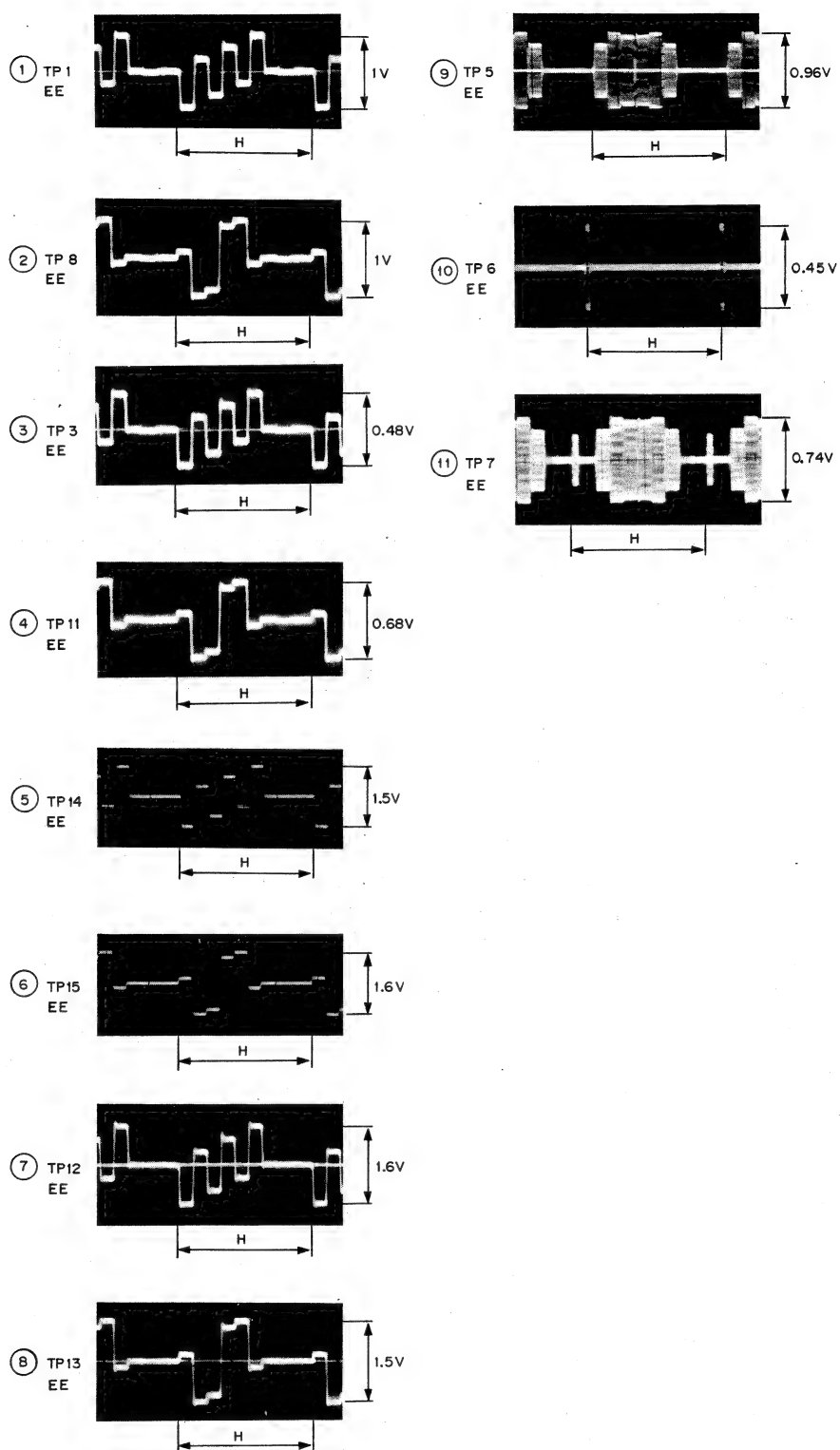
MARK	CHANGE INFORMATION	SERIAL NO.
*1	R120 9100 → 3900 R138 8200 → 6200 R139 3300 → 2400	UC: S/N 16544 ~ J: S/N 12874 ~









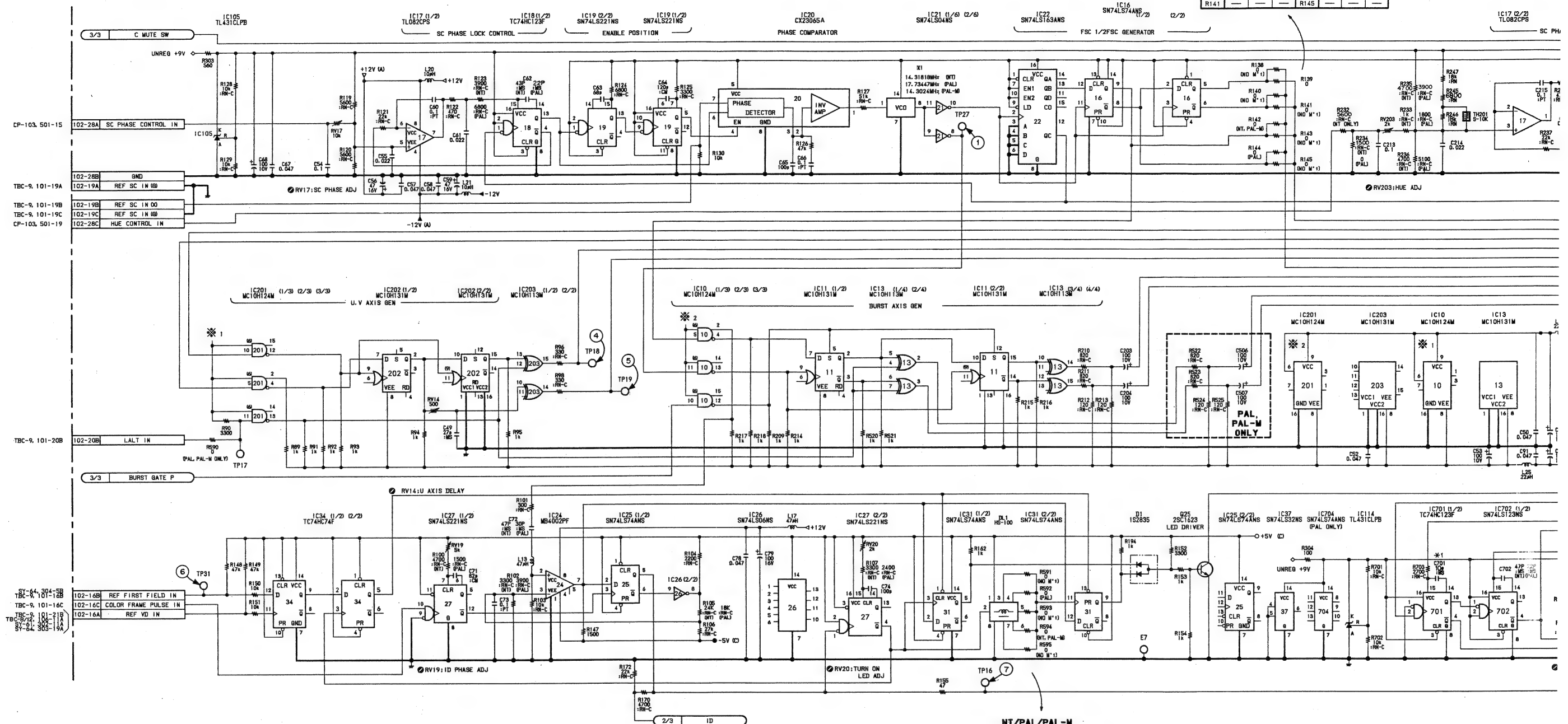


NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	C701 27pF→10pF	UC; S/N 13781 ~ J; S/N 11569 ~

NT/PAL/PAL-M

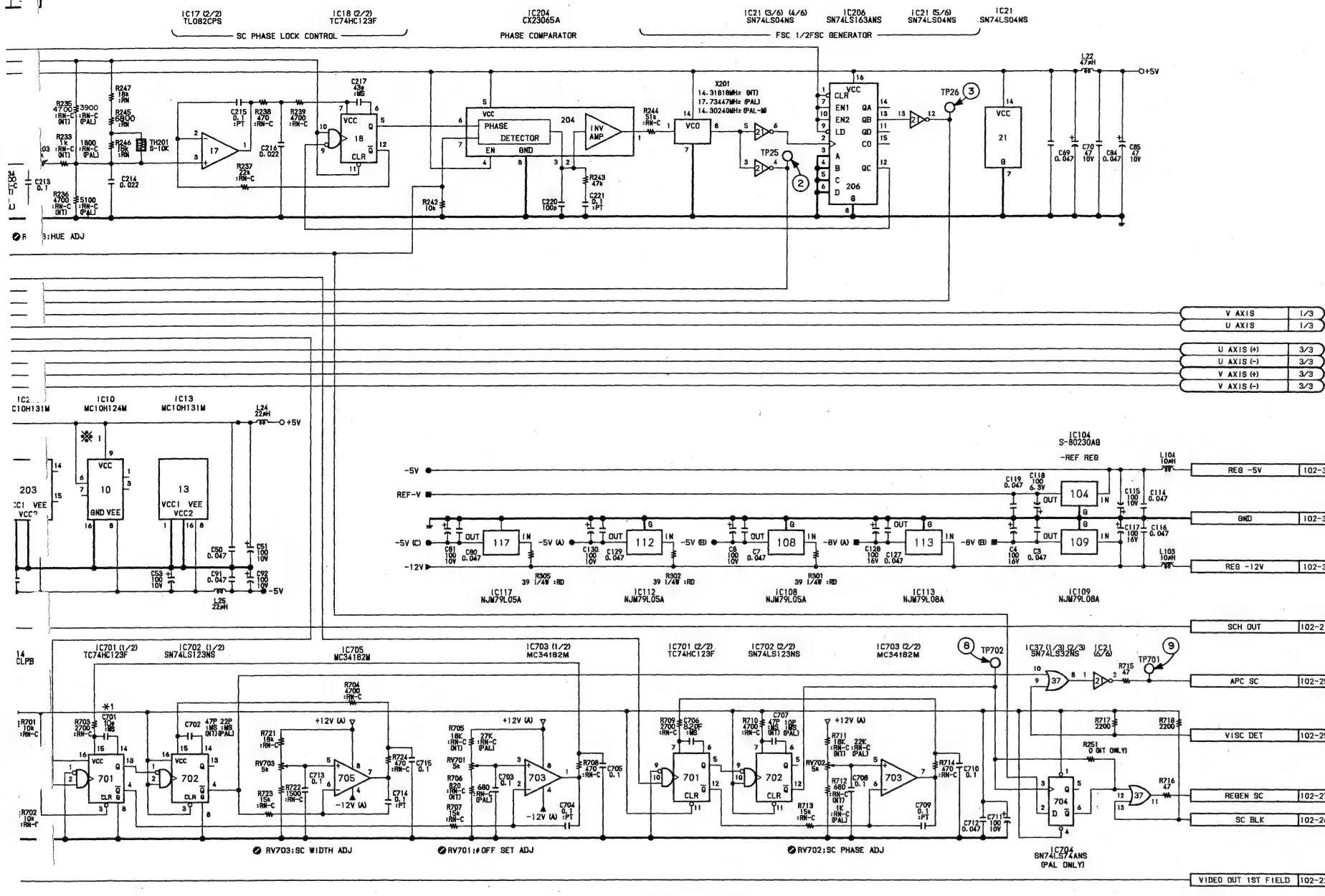
RF. No	NTSC	PAL	PAL-M	RF. No	NTSC	PAL	PAL-M
R138	—	—	—	R142	0	—	0
R139	0	0	0	R143	—	—	—
R140	—	—	—	R144	—	0	—
R141	—	—	—	R145	—	—	—



NT/PAL/PAL-M

RF. No	NTSC	PAL	PAL-M
R591	—	—	—
R592	—	0	—
R593	—	—	—
R594	0	—	0
R595	—	—	—

PAL-M
0

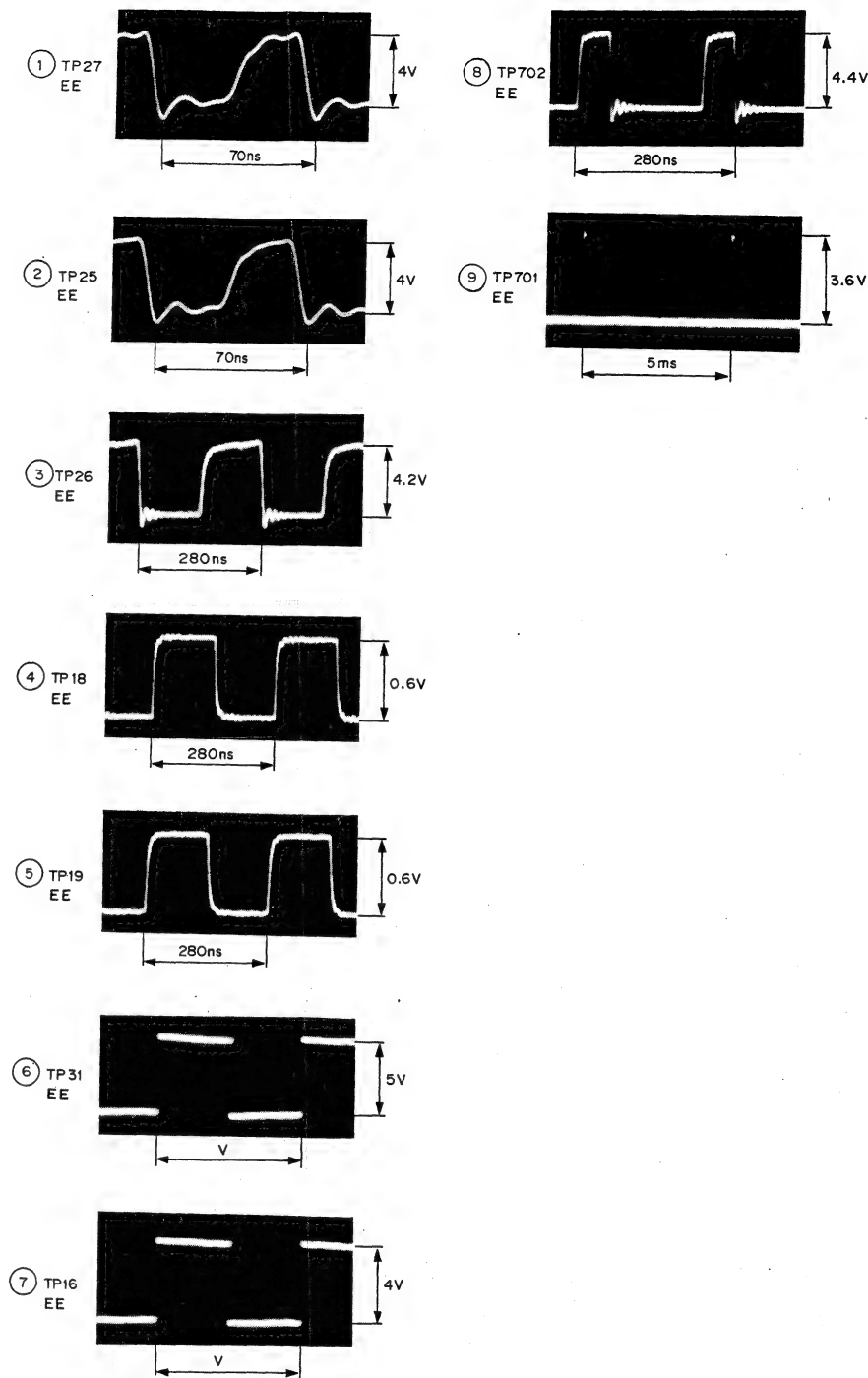


NT/PAL/PAL-M

RF. No	NTSC	PAL	PAL-M	RF. No	NTSC	PAL	PAL-M	RF. No	NTSC	PAL	PAL-M	RF. No	NTSC	PAL	PAL-M
C62	43P	22P	43P	R100	4.7K	1.5K	4.7K	R232	4.3K	—	—	R590	—	0	0
C72	47P	30P	47P	R102	3.3K	3.9K	3.3K	R233	3.3K	1.8K	1K	R705	18K	27K	18K
C702	47P	22P	47P	R105	24K	18K	24K	R234	1.8K	0	1.5K	R706	820	680	820
C707	47P	10P	47P	R107	3.3K	2.4K	3.3K	R235	5.6K	3.3K	4.7K	R711	18K	22K	18K
				R123	3.9K	6.8K	3.9K	R236	4.7K	5.1K	4.7K	R712	680	1K	680
IC704	—	SN74LS14ANS	—					R251	0	—	0				
X1	14.31MHz	17.73MHz	14.30MHz												
X201	14.31MHz	17.73MHz	14.30MHz												

EN-48 (2/3)

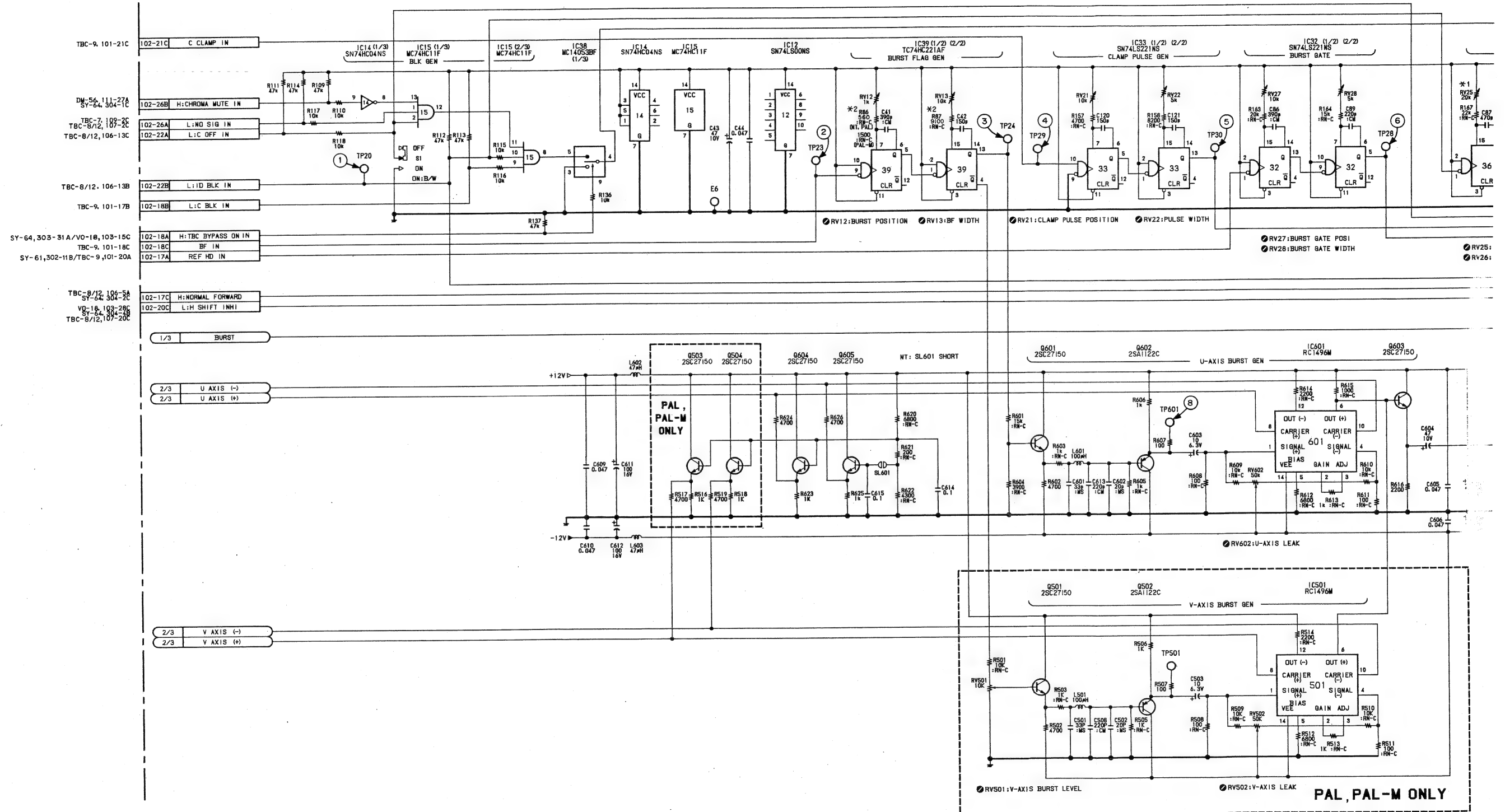
1-622-546-14, 15
 BVW-60 BVW-70
 BVW-65 BVW-75
 BVW-95 BVW-96

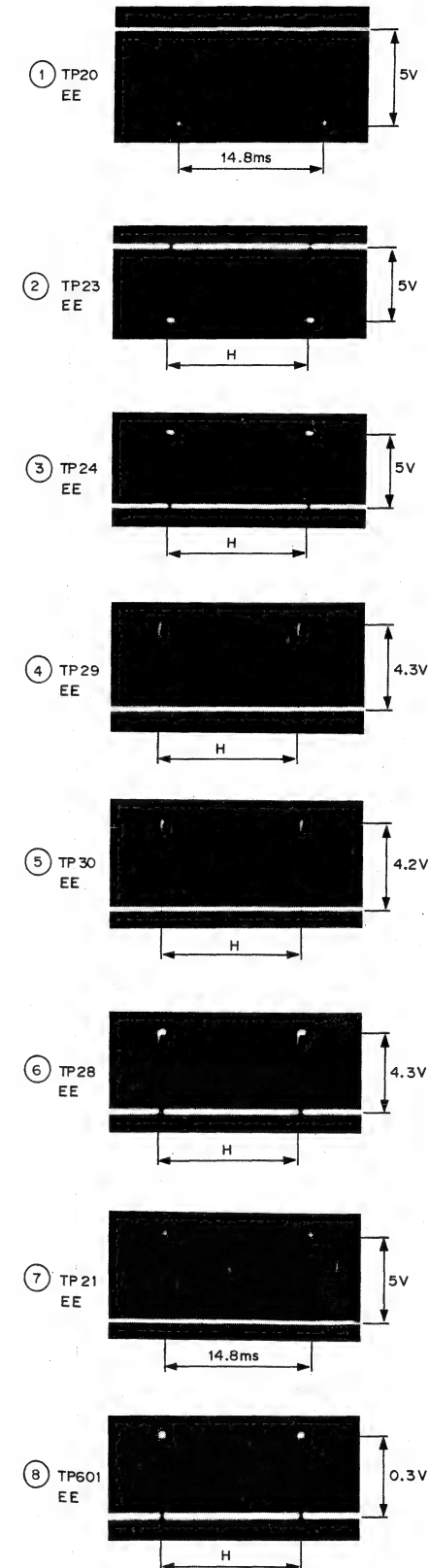
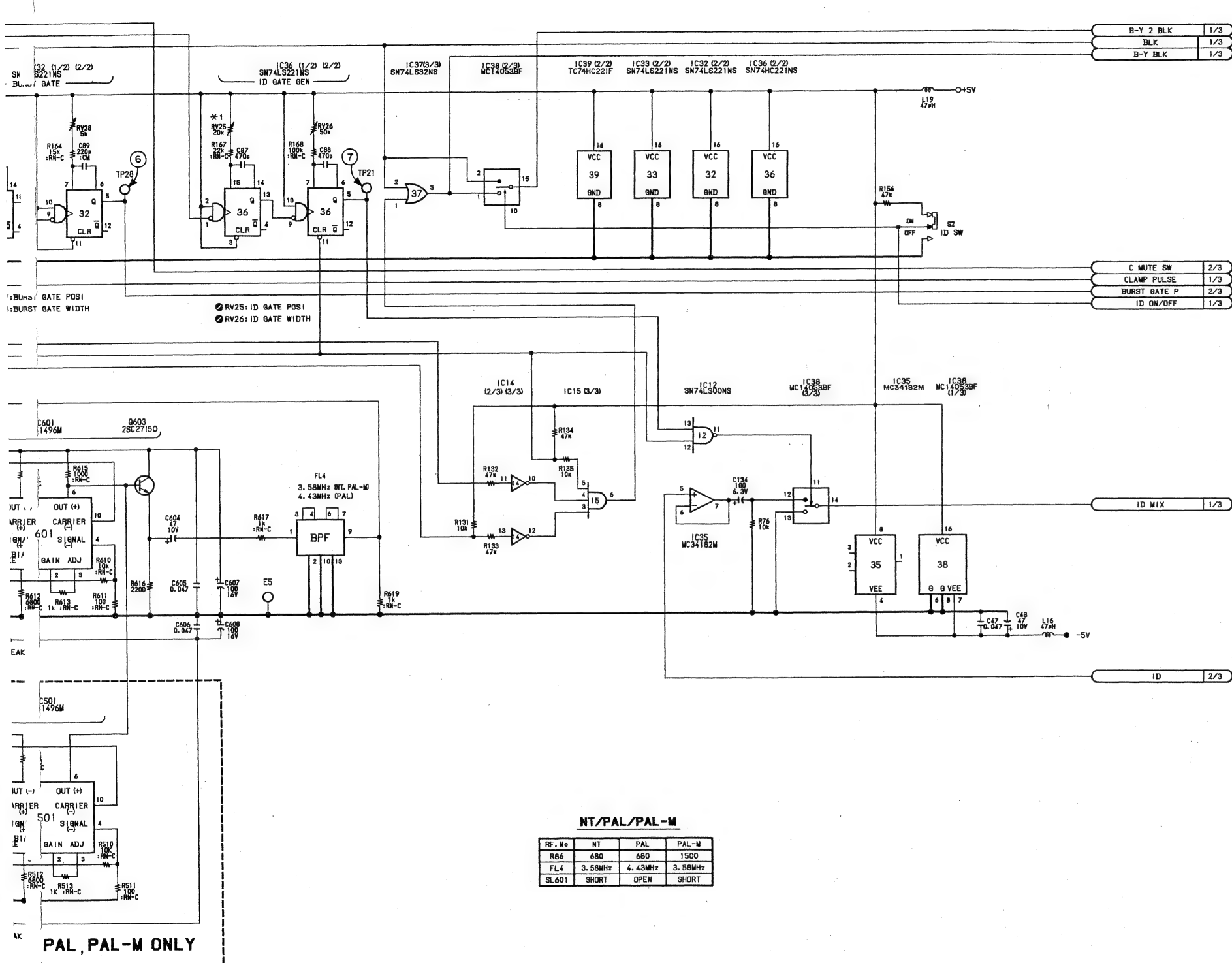


EN-48 (3/3) ; C BLK/BURST GENERATOR

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	RV25 10k → 20k	UC; S/N 14175 ~ J; S/N 11619 ~
*2	R86 680 → 560 R87 10k → 9100	UC; S/N 16544 ~ J; S/N 12874 ~





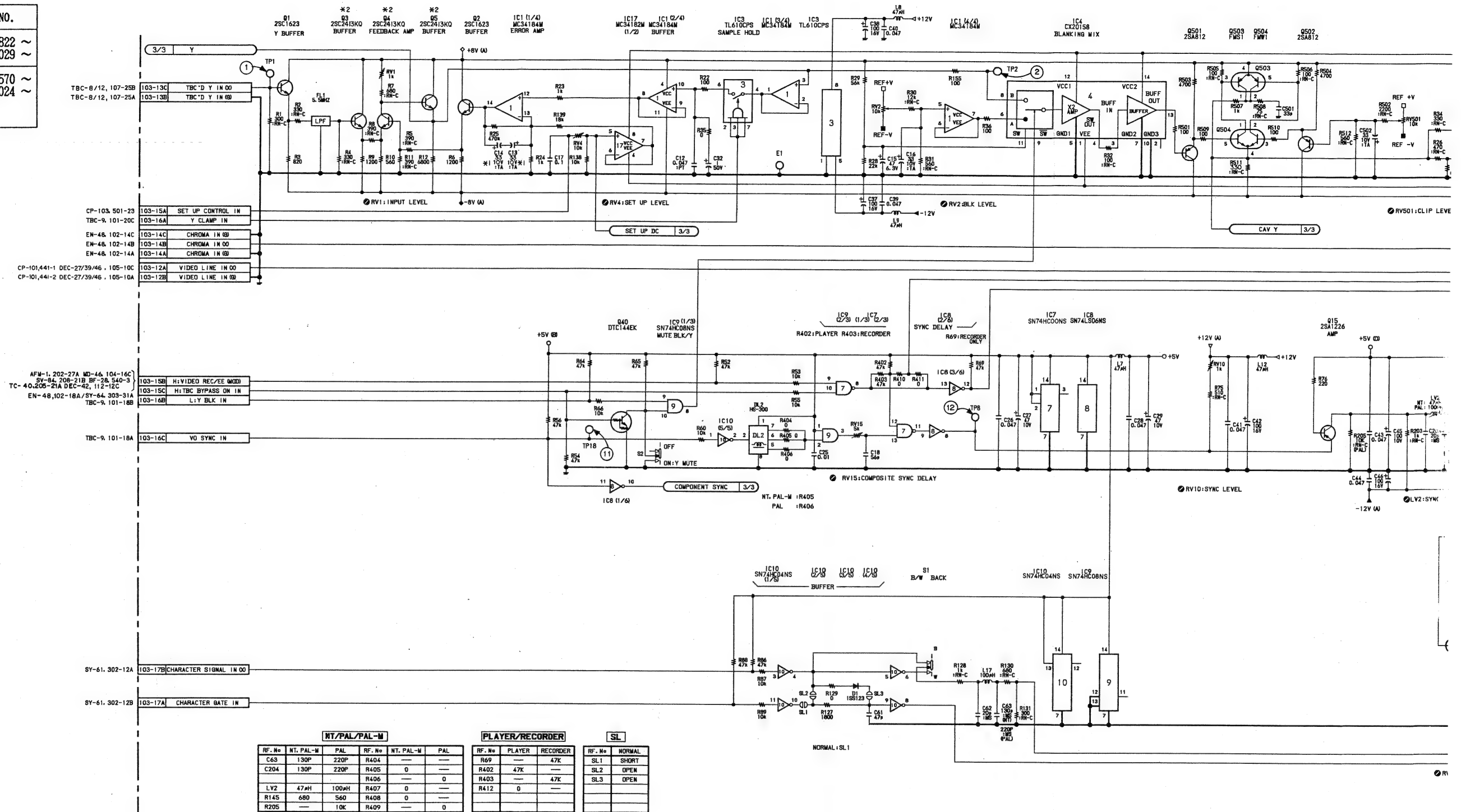
EN-48 (3/3)

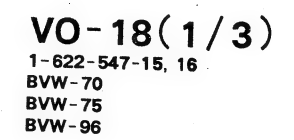
1-622-546-14, 15
 BVW-60 BVW-70
 BVW-65 BVW-75
 BVW-95 BVW-96

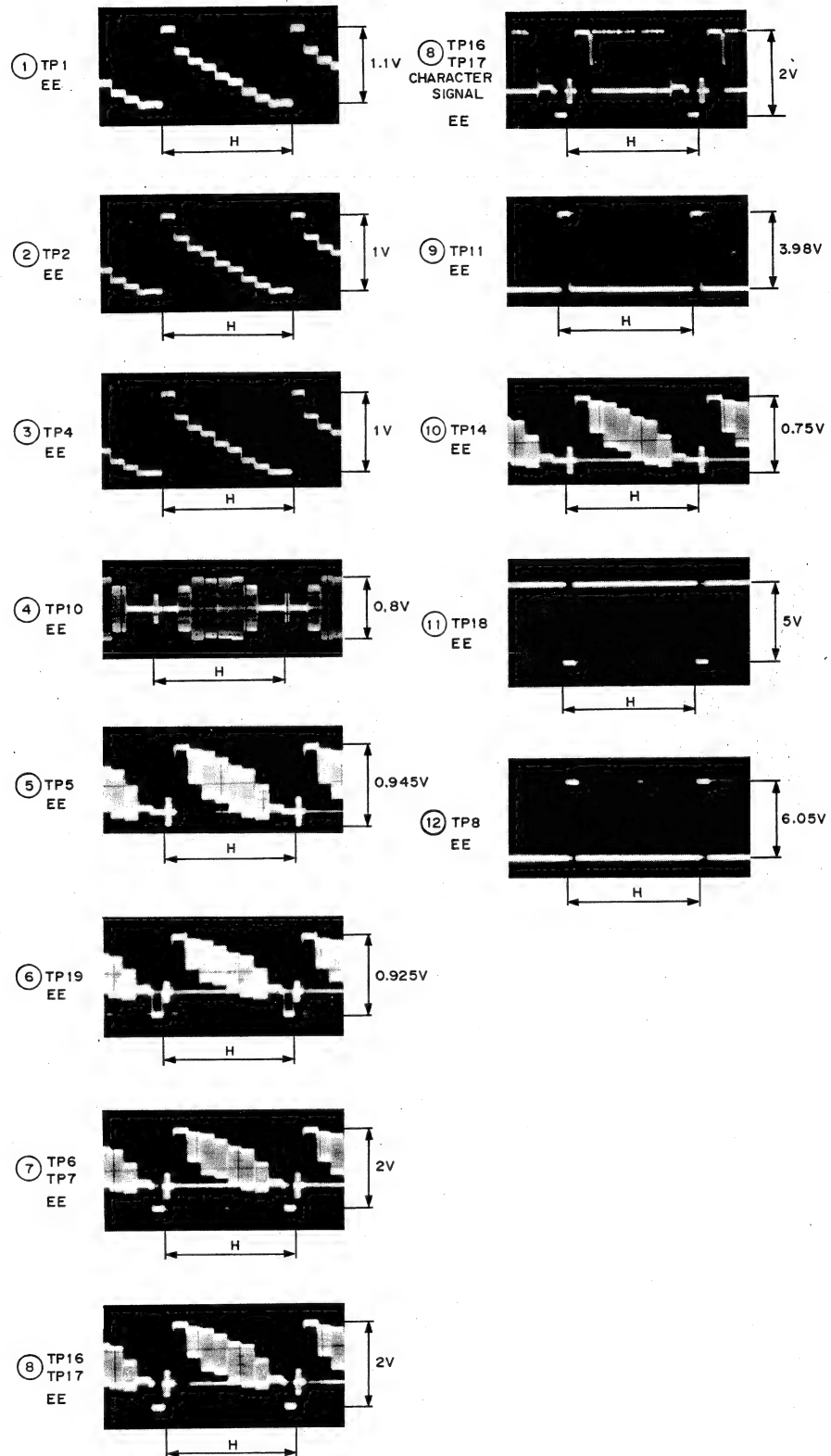
VO-18 (1/3) ; VIDEO OUTPUT

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	C13 10/25V → 33/10V C14 10/25V → 33/10V	UC: S/N 14822 ~ J: S/N 12029 ~
*2	Q3,4,5,7,8,9,10,12,14, Q16,17,18,20,35,36,37, Q39 2SC2715Y → 2SC2413KQ	UC: S/N 16570 ~ J: S/N 13024 ~



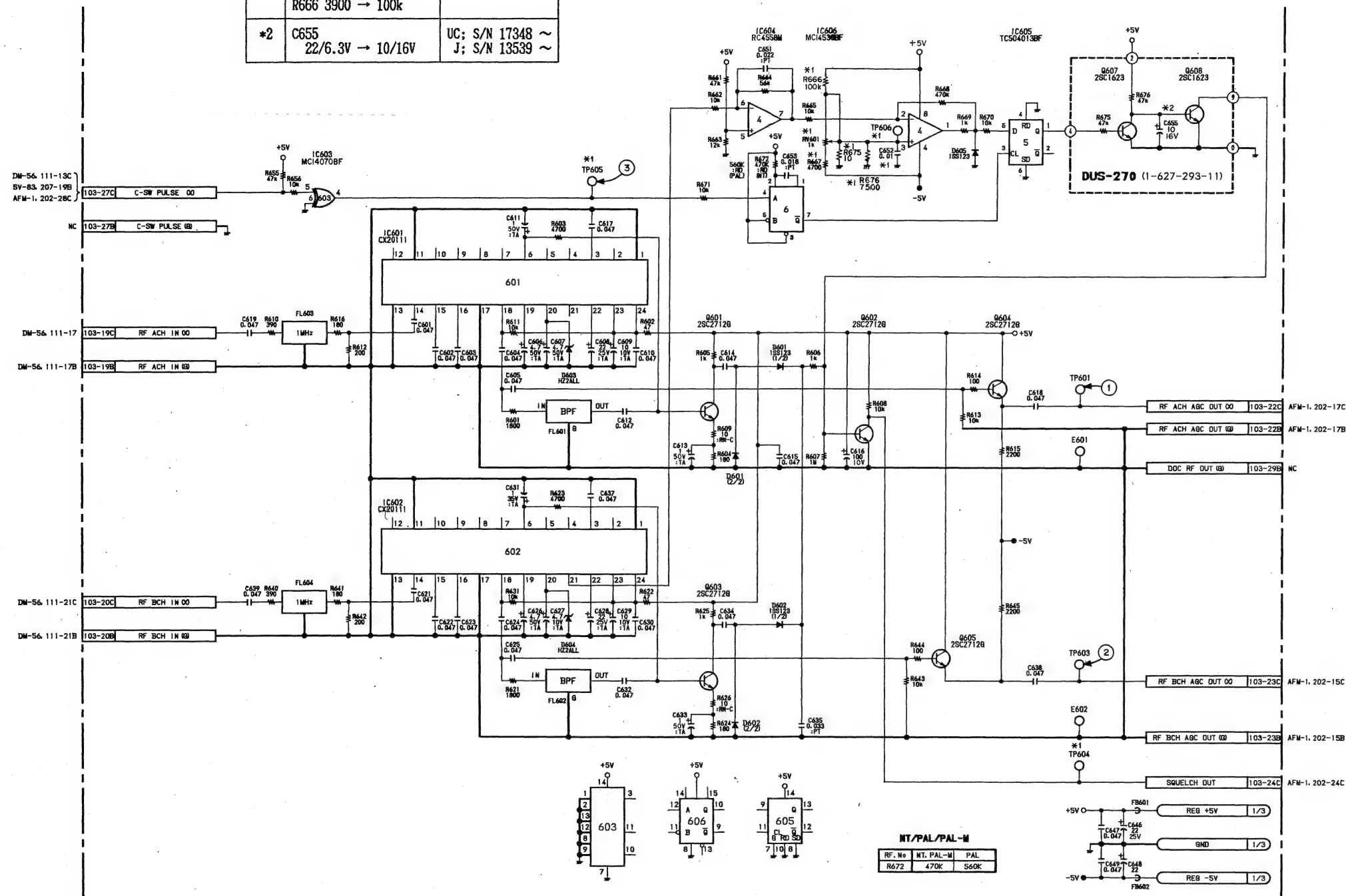




VO-18 (2/3); AGC FOR AFM
VO-18 (3/3); SCH DETECTOR
DUS-270; SQUELCH BUFFER

NOTE

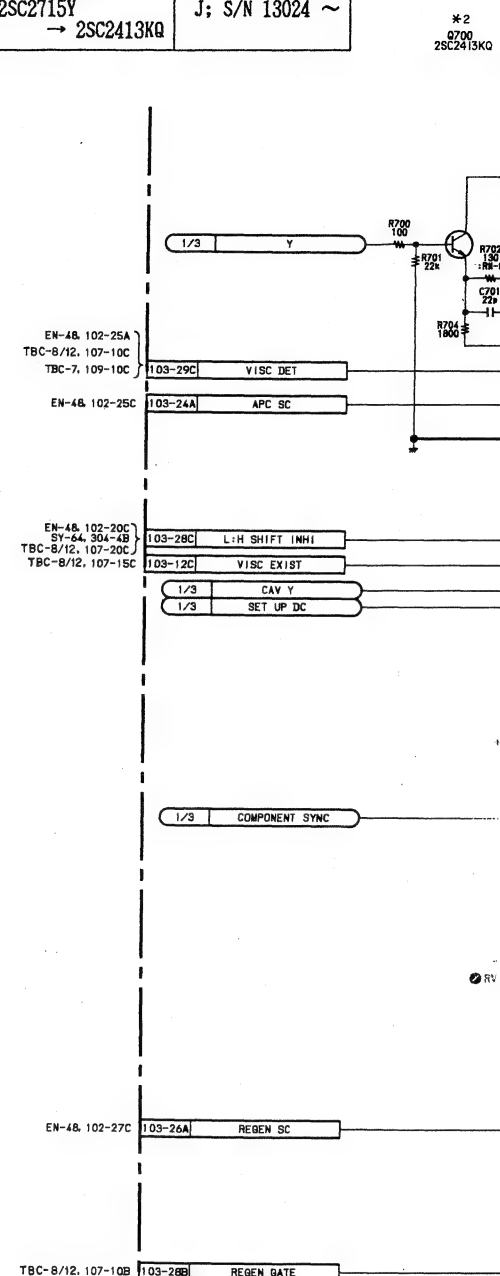
MARK	CHANGE INFORMATION	SERIAL NO.
*1	DELETED C652, R667, RV601 TP604, TP605, TP606 ADDED R675, R676 R666 3900 → 100k	UC; S/N 14657 ~ J; S/N 11949 ~
*2	C655 22/6.3V → 10/16V	UC; S/N 17348 ~ J; S/N 13539 ~



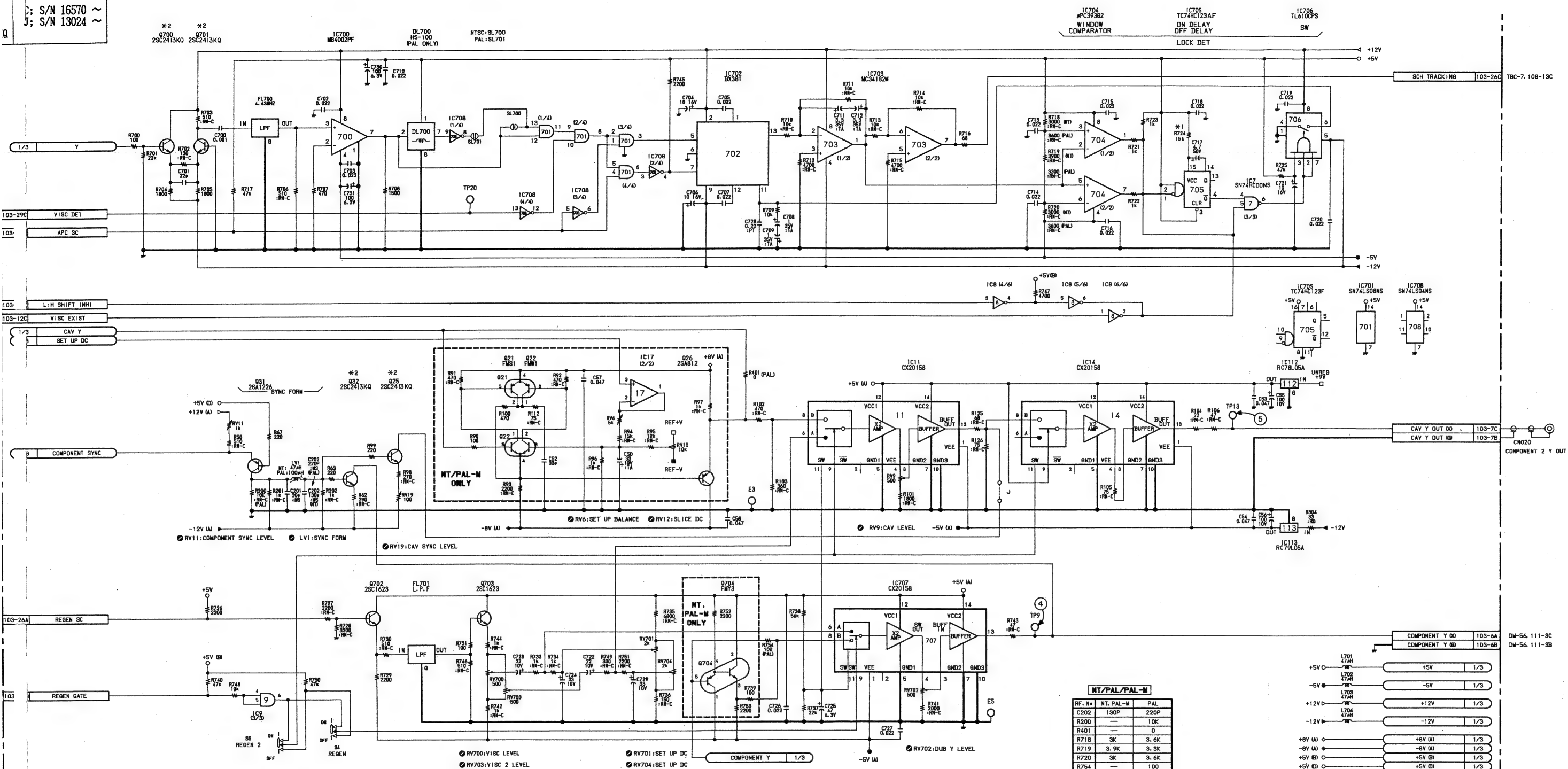
VO-18(2/3)
1-622-547-15, 16
BVW-70
BVW-75
BVW-96

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R724 33k → 15k	UC; S/N 16544 ~ J; S/N 12874 ~
*2	Q25, 32, 700, 701 2SC2715Y → 2SC2413KQ	UC; S/N 16570 ~ J; S/N 13024 ~



J; S/N 13024



NT/PAL/PAL-M		
RF. No	NT, PAL-M	PAL
C202	130P	220P
R200	—	10K
R401	—	0
R718	3K	3.6K
R719	3.9K	3.3K
R720	3K	3.6K
R754	—	100
LV1	47μH	100μH
DL700	—	M ¹
FL700	3.58MHz	4.43MHz
FL701	3.58MHz	4.43MHz

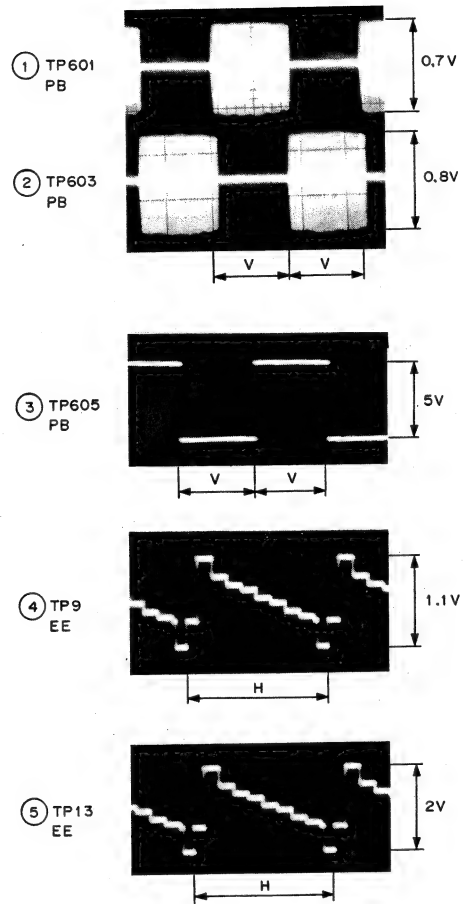
SL		
RF. No	NT	PAL
SL700	SHORT	OPEN
SL701	OPEN	SHORT

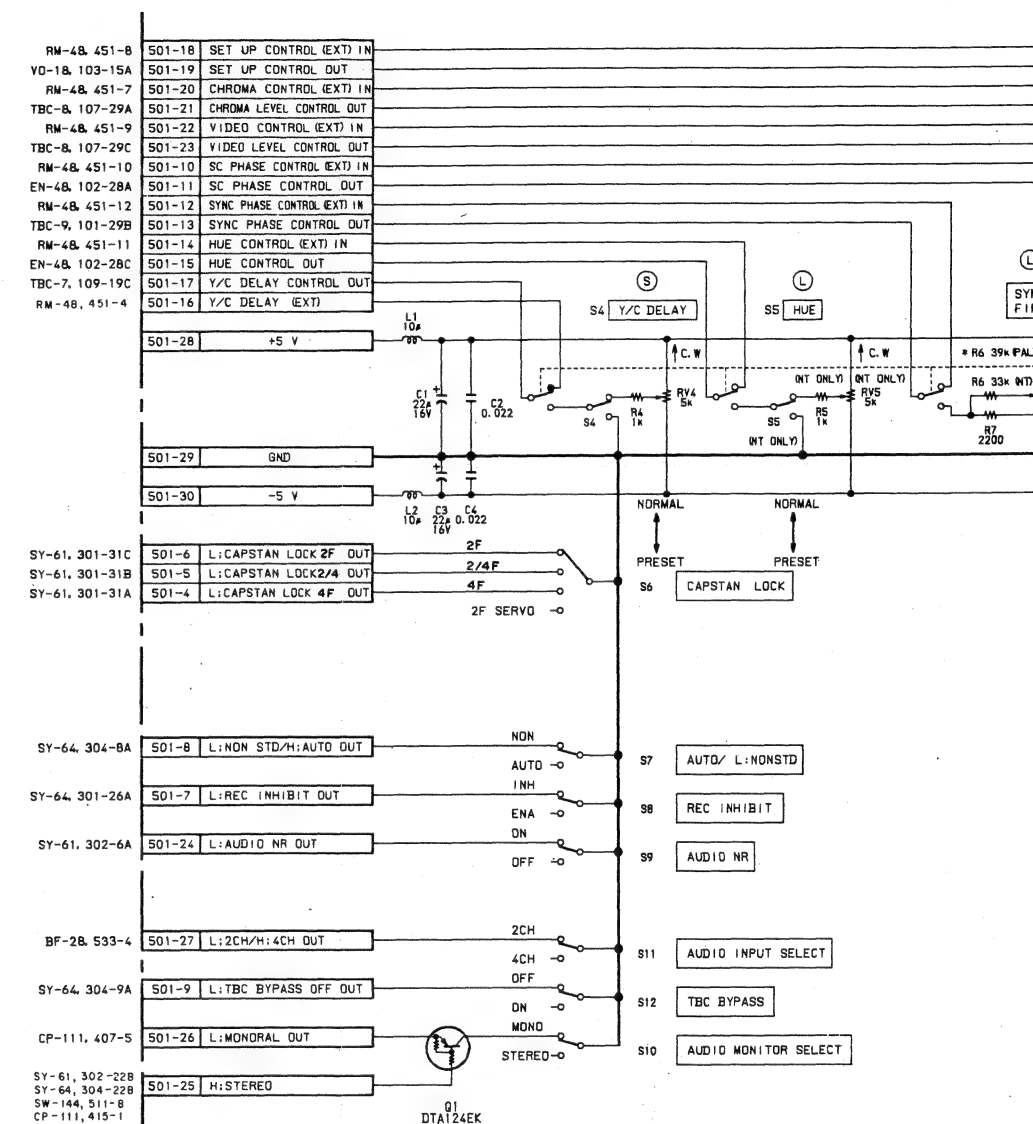
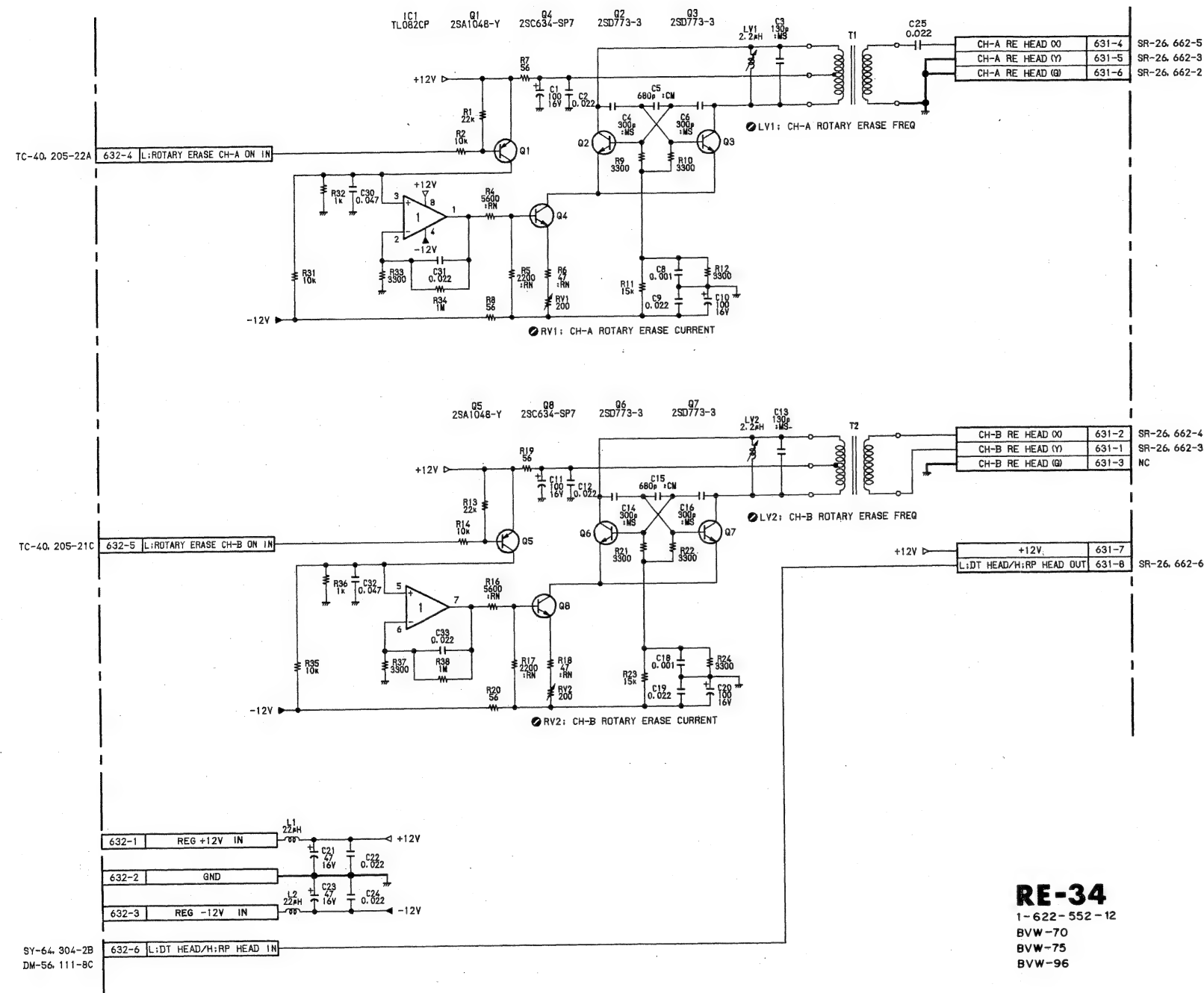
VO-18(3/3)

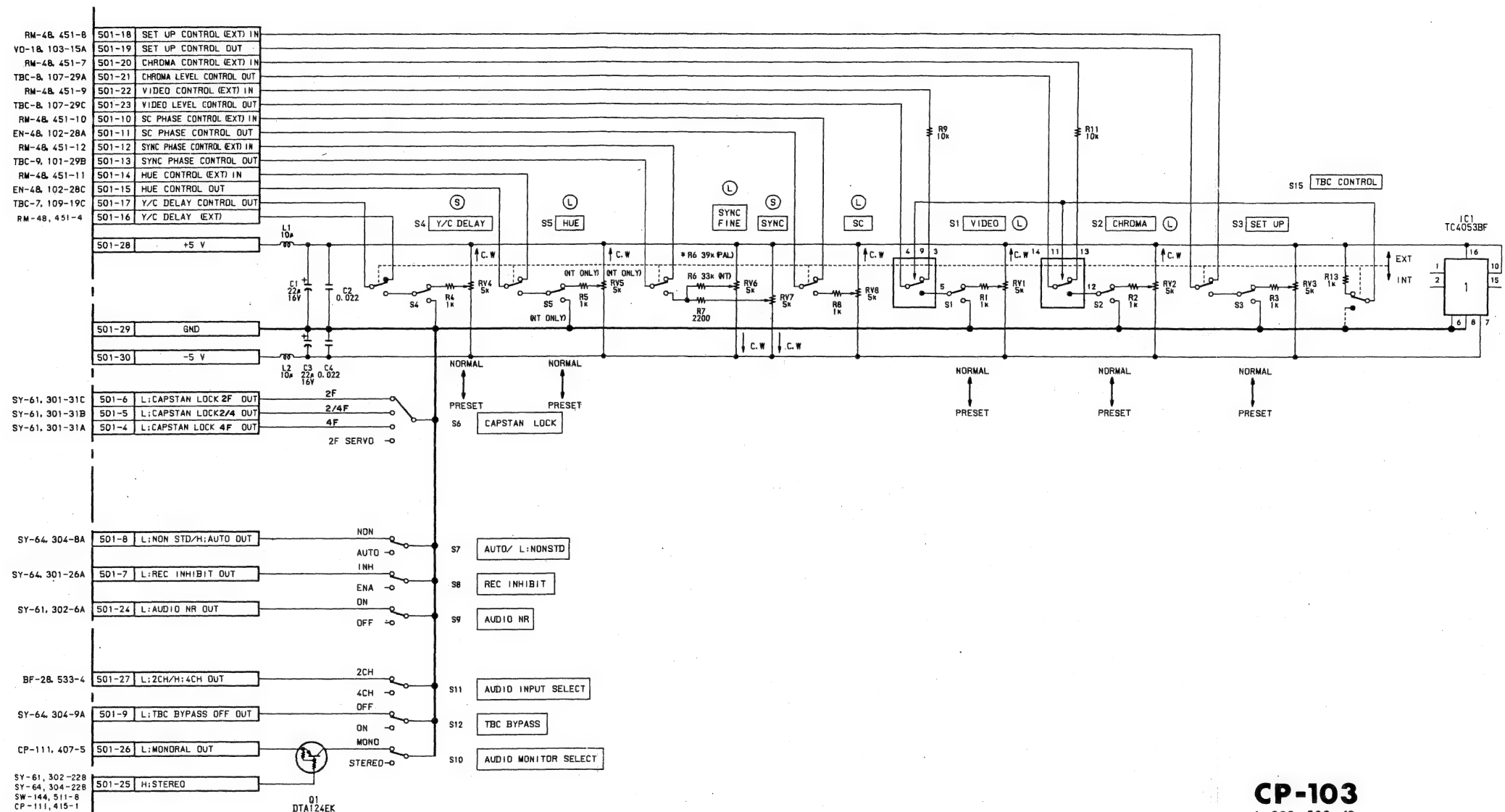
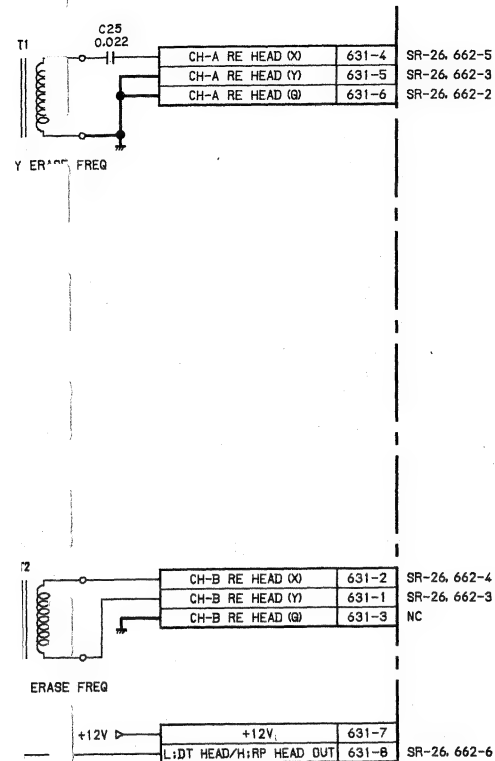
1-622-547-15, 16

BVW-70

BVW-75



RE-34; ROTARY ERASE
CP-103; SUB CONTROL PANEL



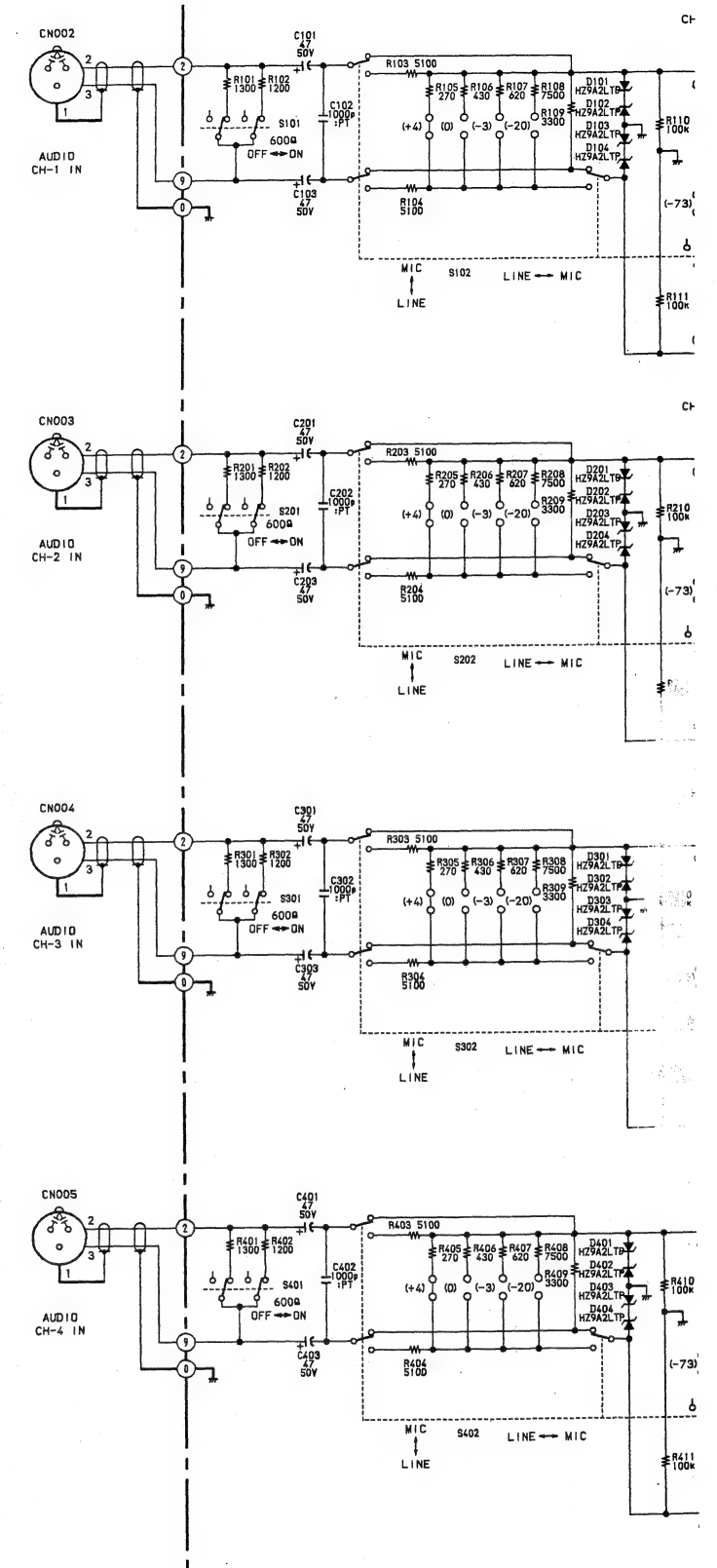
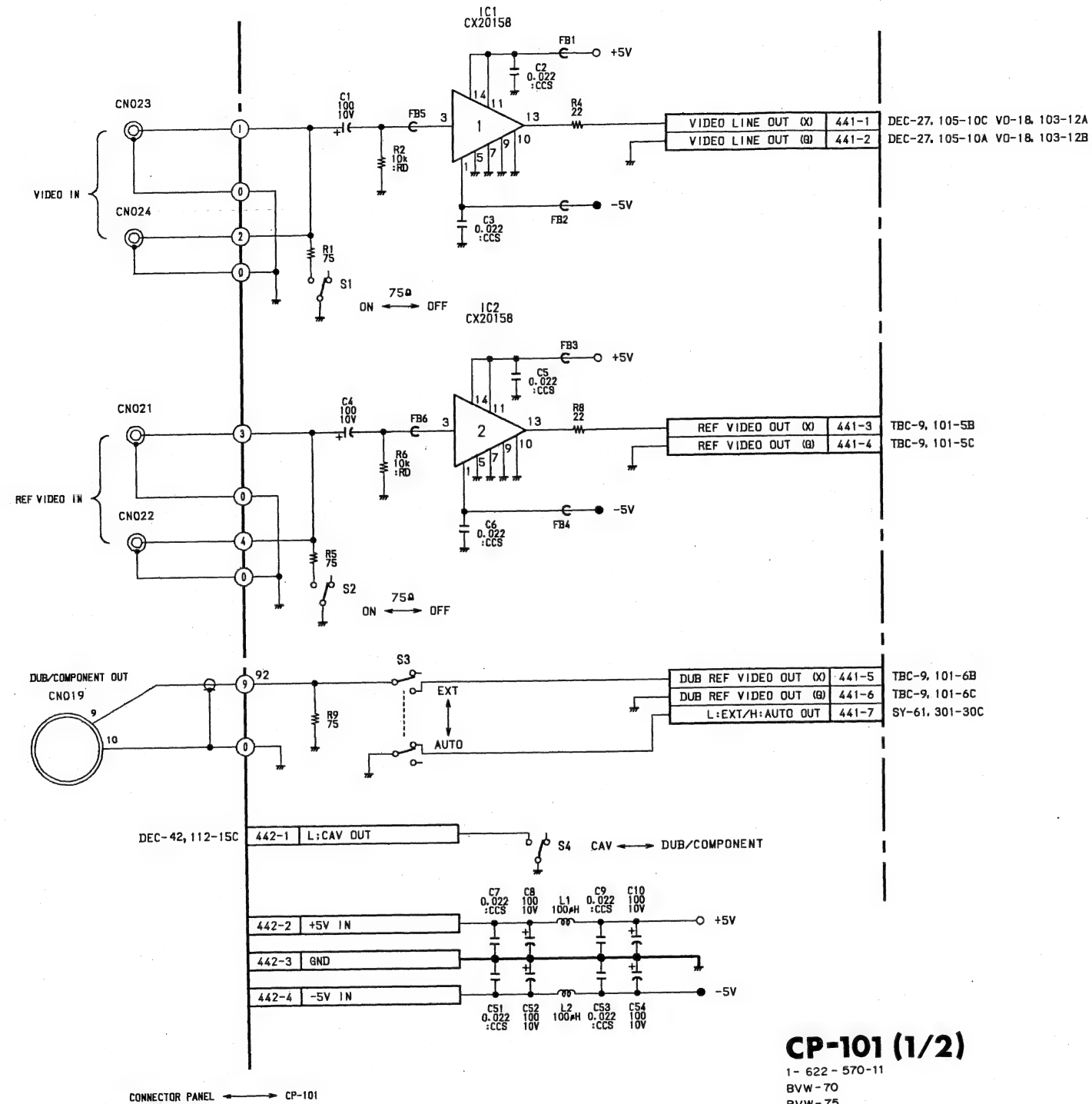
RE-34

1-622-552-12
BVW-70
BVW-75
BVW-96

CP-103

1-622-566-12
BVW-70
BVW-75
BVW-96

CP-101 (1/2); VIDEO INPUT
CP-101 (2/2); AUDIO INPUT



VIDFO LINE OUT (X)	441-1	DEC-27, 105-10C VO-18, 103-12A
VID LINE OUT (B)	441-2	DEC-27, 105-10A VO-18, 103-12B

REF VIDEO OUT (X)	441-3	TBC-9, 101-5B
REF VIDEO OUT (B)	441-4	TBC-9, 101-5C

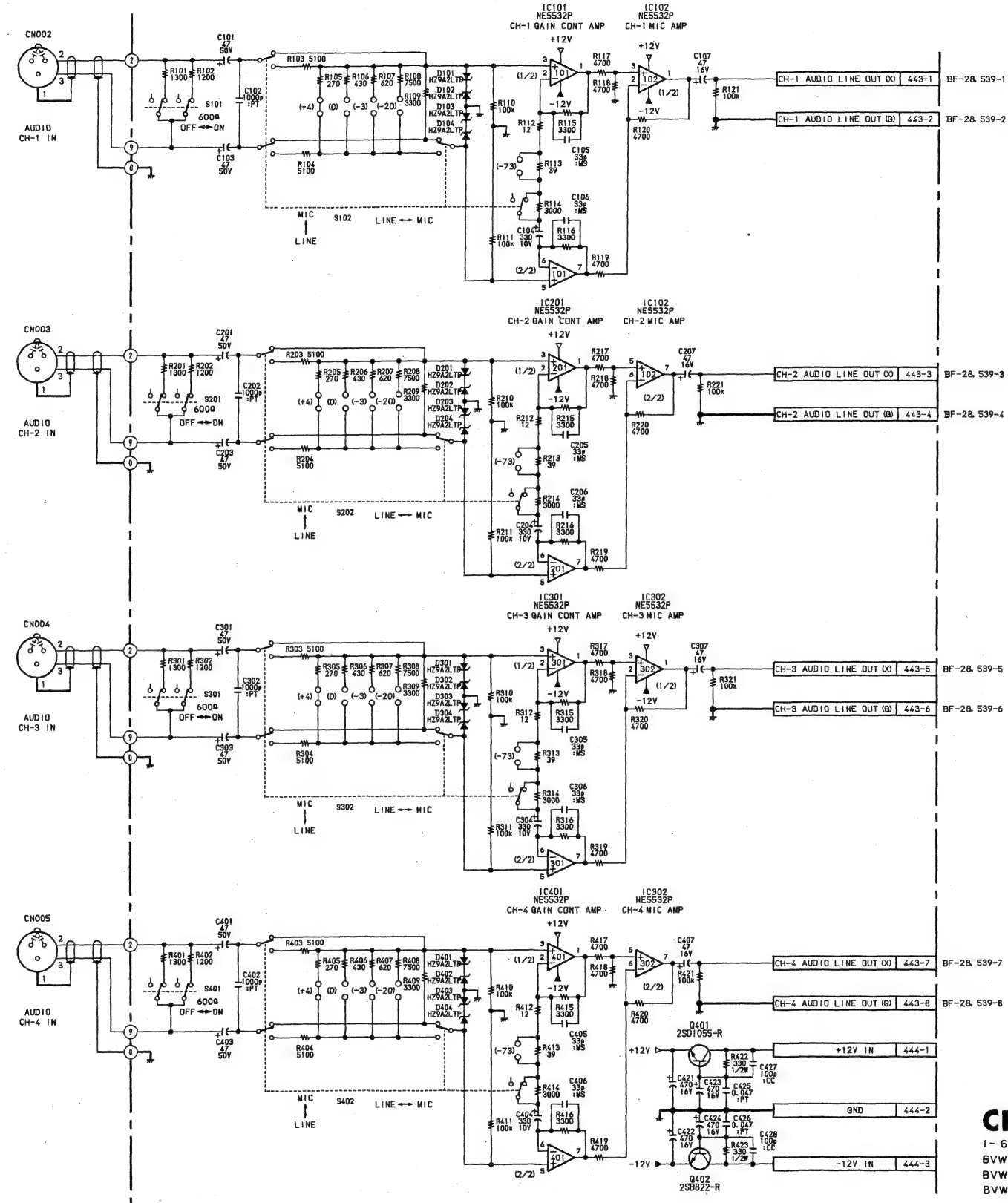
3 REF VIDEO OUT (X)	441-5	TBC-9, 101-6B
3 REF VIDEO OUT (B)	441-6	TBC-9, 101-6C
L T/H-AUTO OUT	441-7	SY-61, 301-30C

OMPONENT

0 +0V

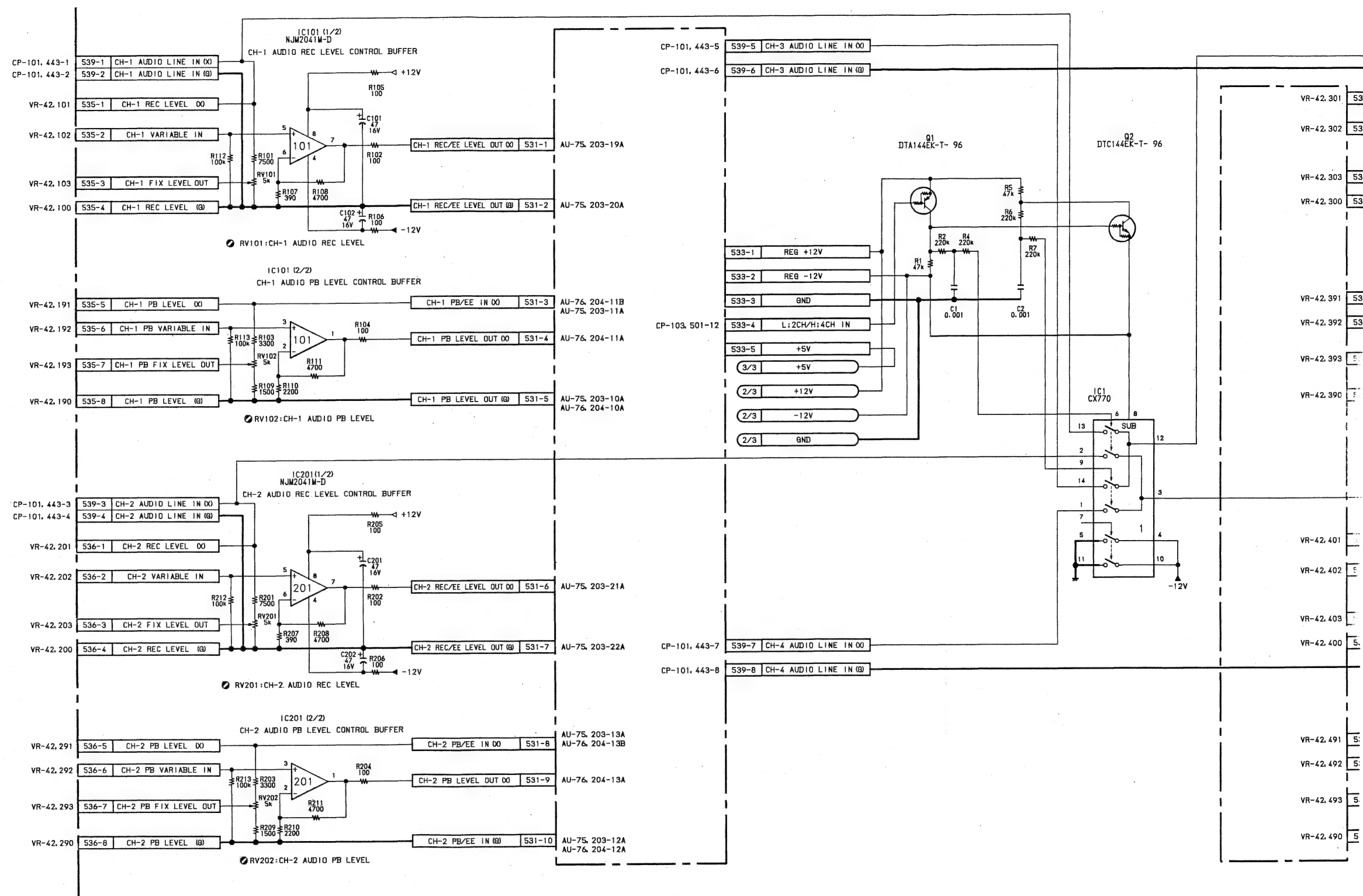
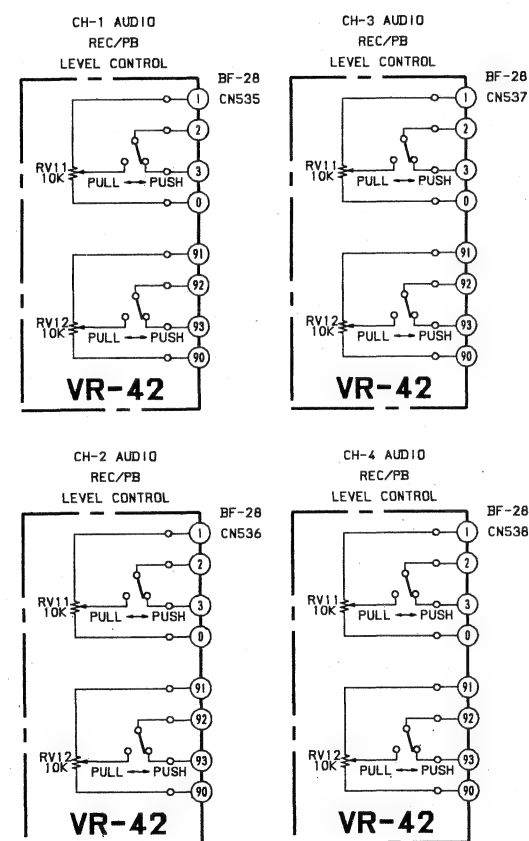
CP-101 (1/2)

1- 622- 570-11
BVW-70
BVW-75
BVW-96



CP-101 (2/2)

1- 622- 570-11
BVW-70
BVW-75
BVW-96

BF-28 (1/3); AUDIO REC/PB LEVEL CONTROL
VR-42; AUDIO REC/PB VOLUMEUC; Up to S/N 14821
J; Up to S/N 12028

16-206 (a)

16-207 (a)

A

B

C

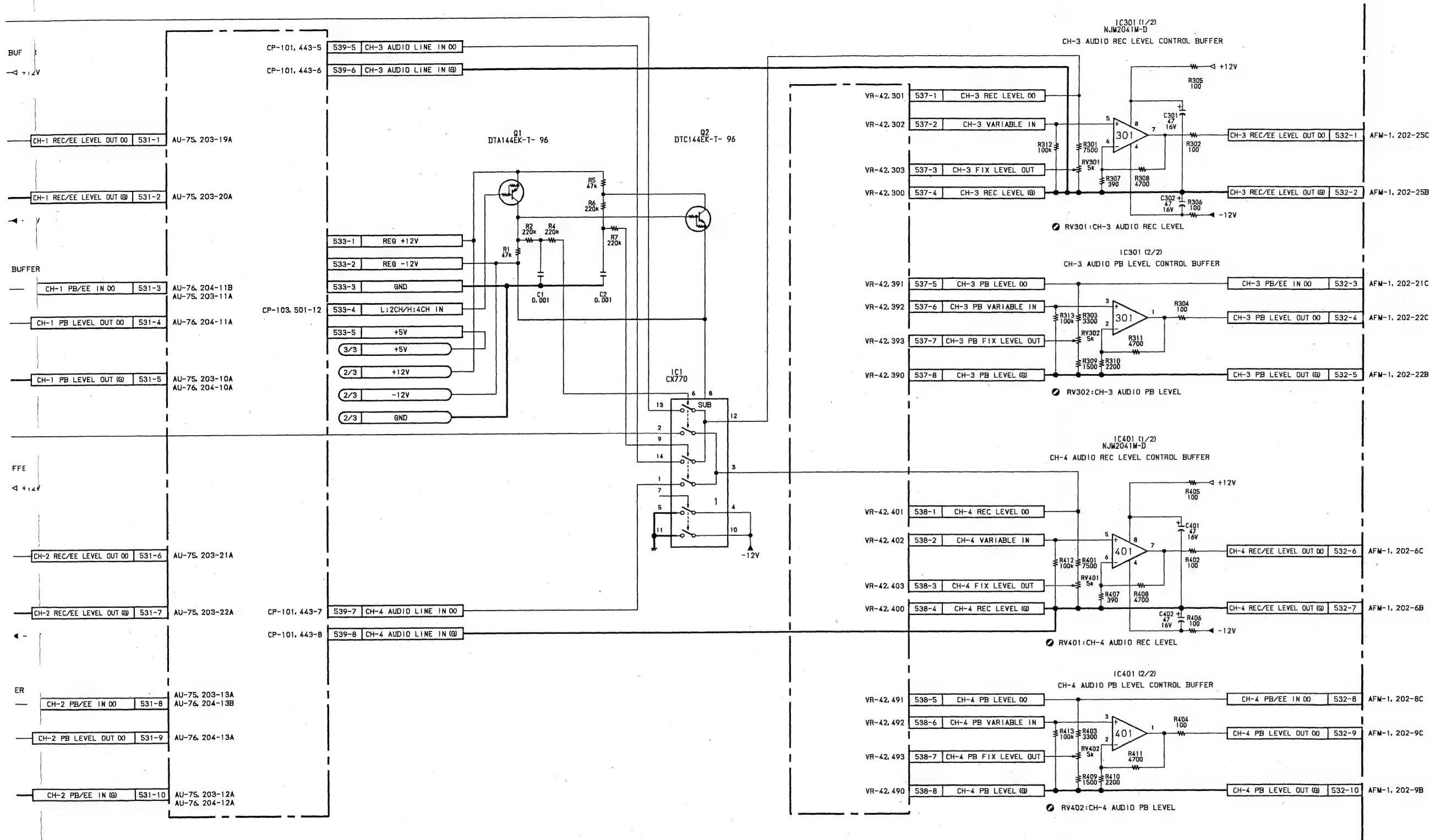
D

E

F

G

H

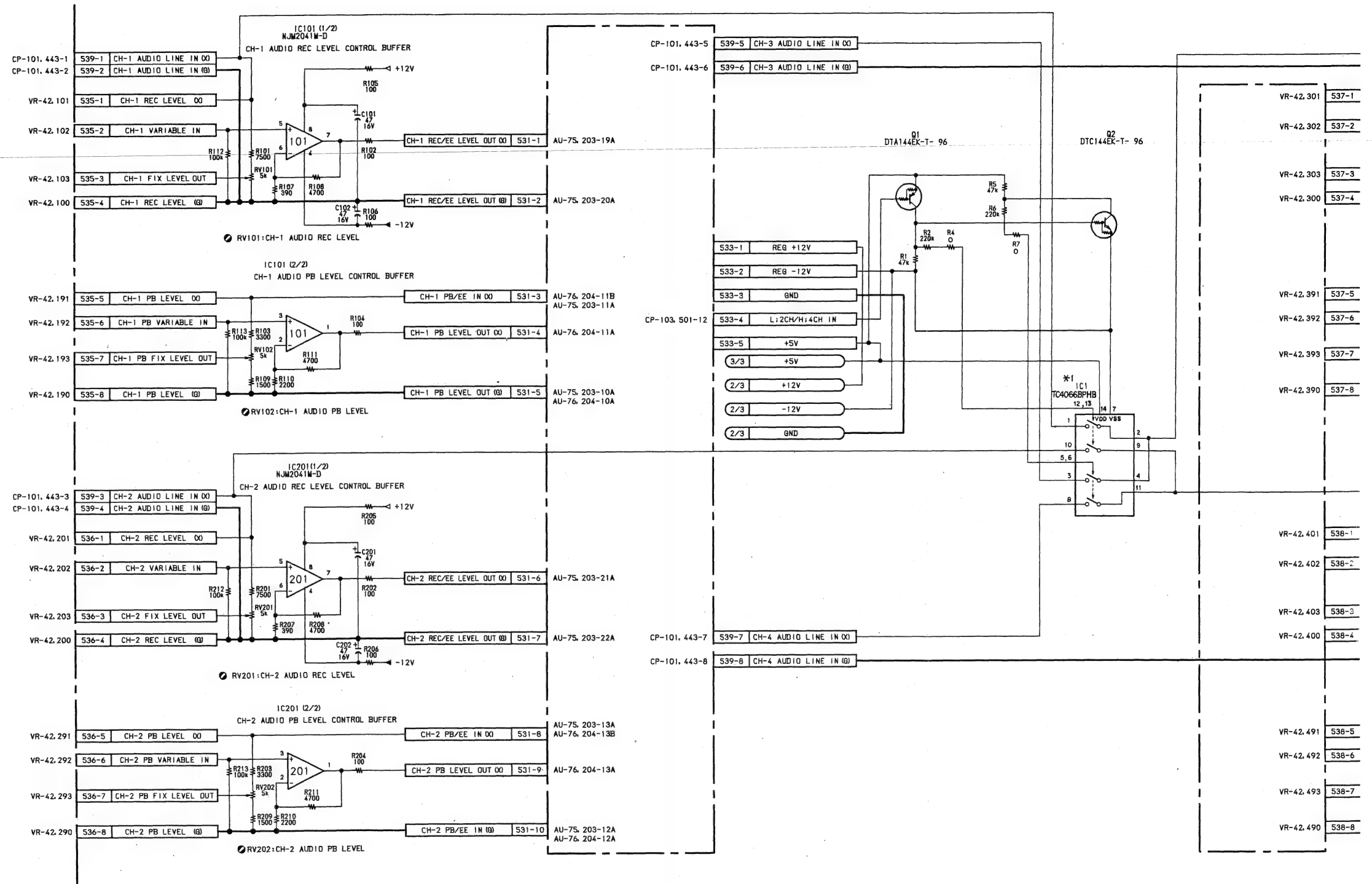
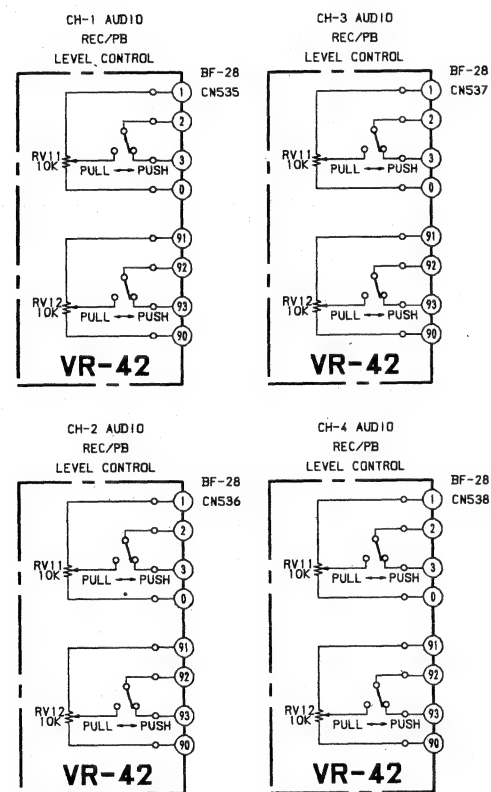


BF-28 (1/3)

1-622-574-13
BVW-70
BVW-75
BVW-96

UC; S/N 14822 and higher
J; S/N 12029 and higher

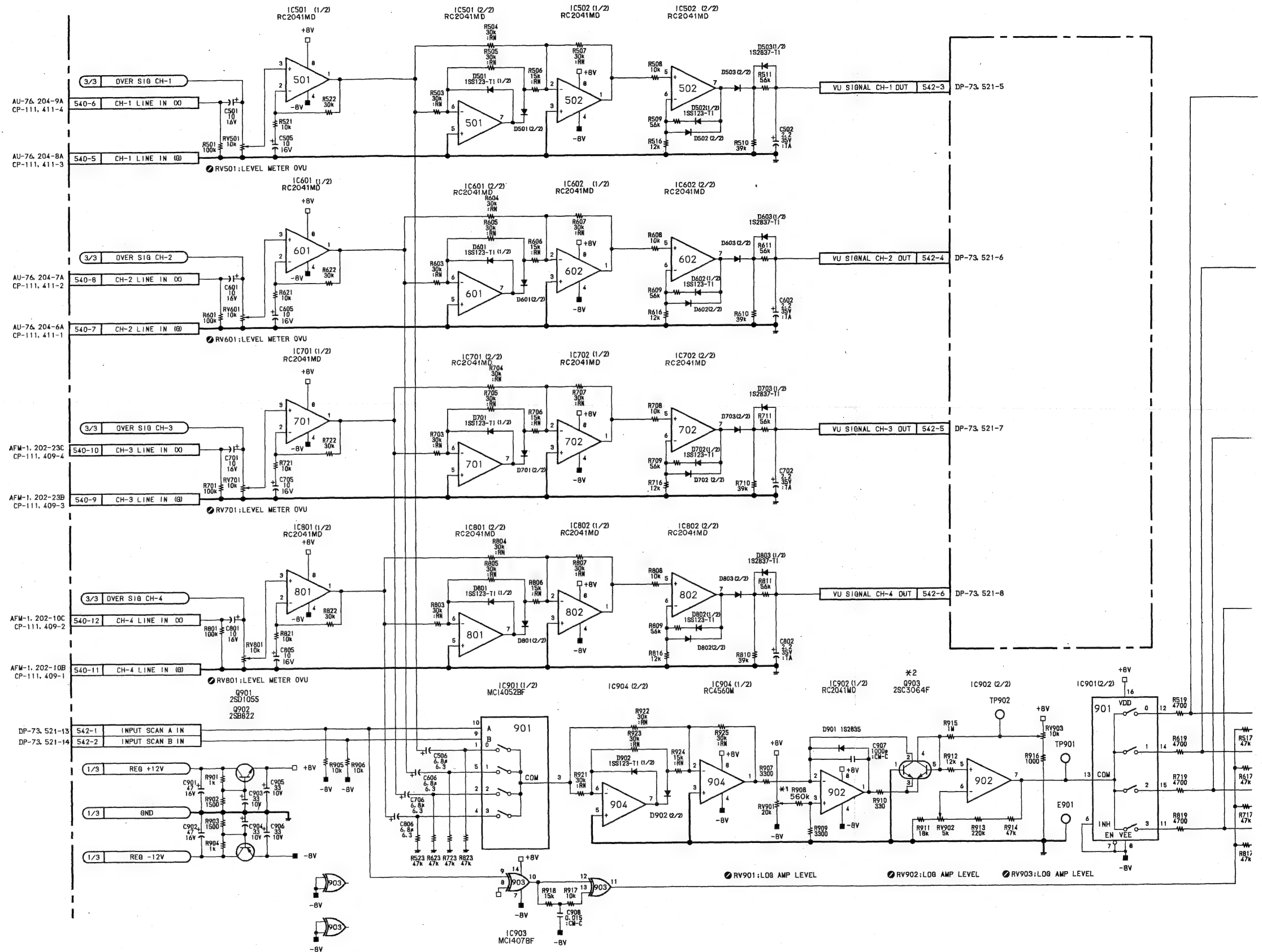
MARK	CHANGE INFORMATION	SERIAL NO.
*1	IC1 TC4016BP → TC4066BPHB	UC; S/N 16275 ~ J; S/N 12689 ~

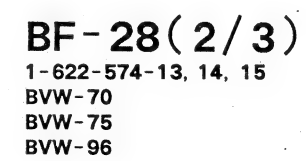


BF-28 (2/3); AUDIO LEVEL VU/dB DETECTOR

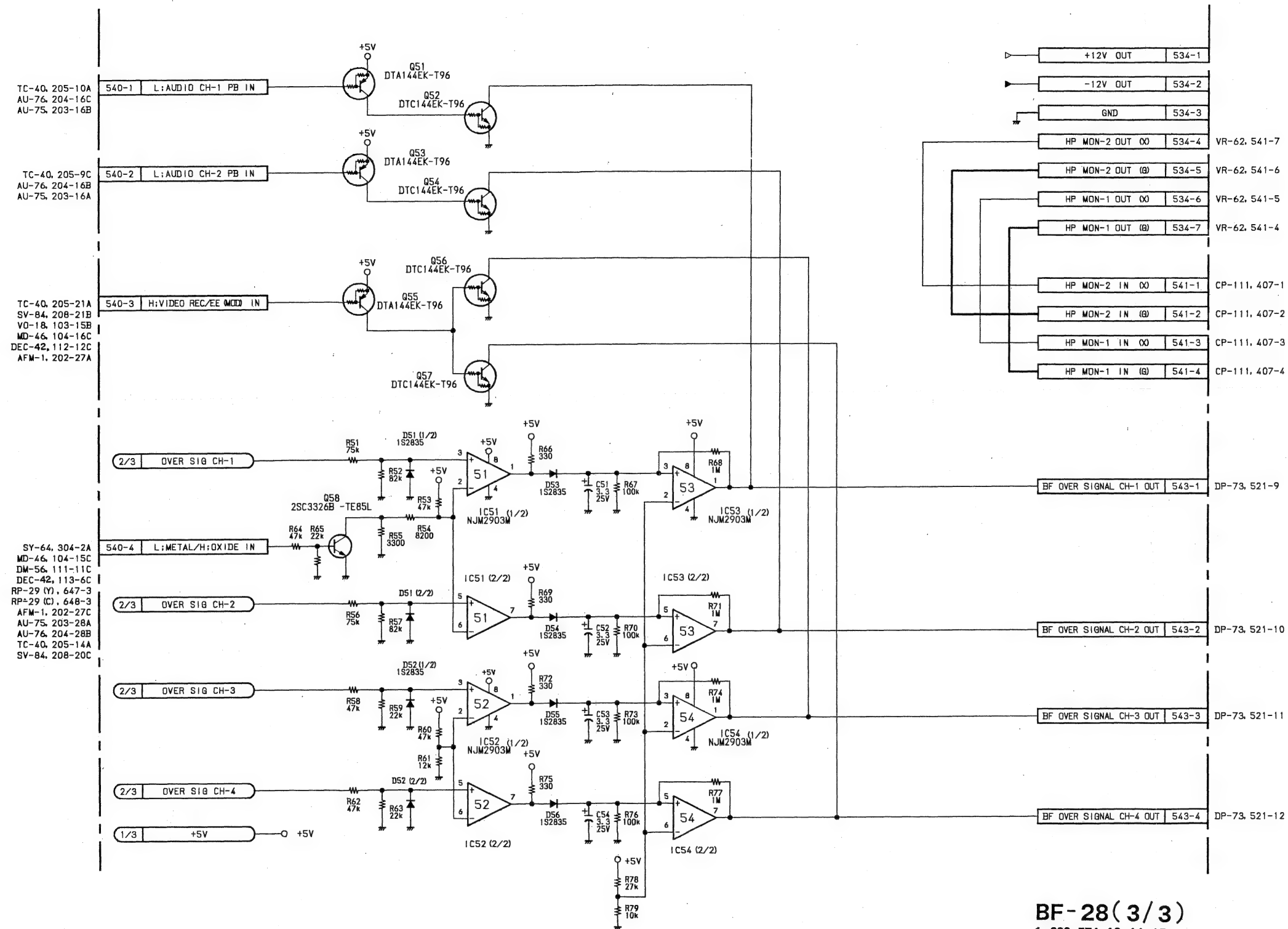
NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R908 1M → 560k	UC; S/N 15472 ~ J; S/N 12239 ~
*2	2SC2259-G → 2SC3064F	UC; S/N 16544 ~ J; S/N 12874 ~





BF-28 (3/3) ; AUDIO LEVEL OVER DETECTOR

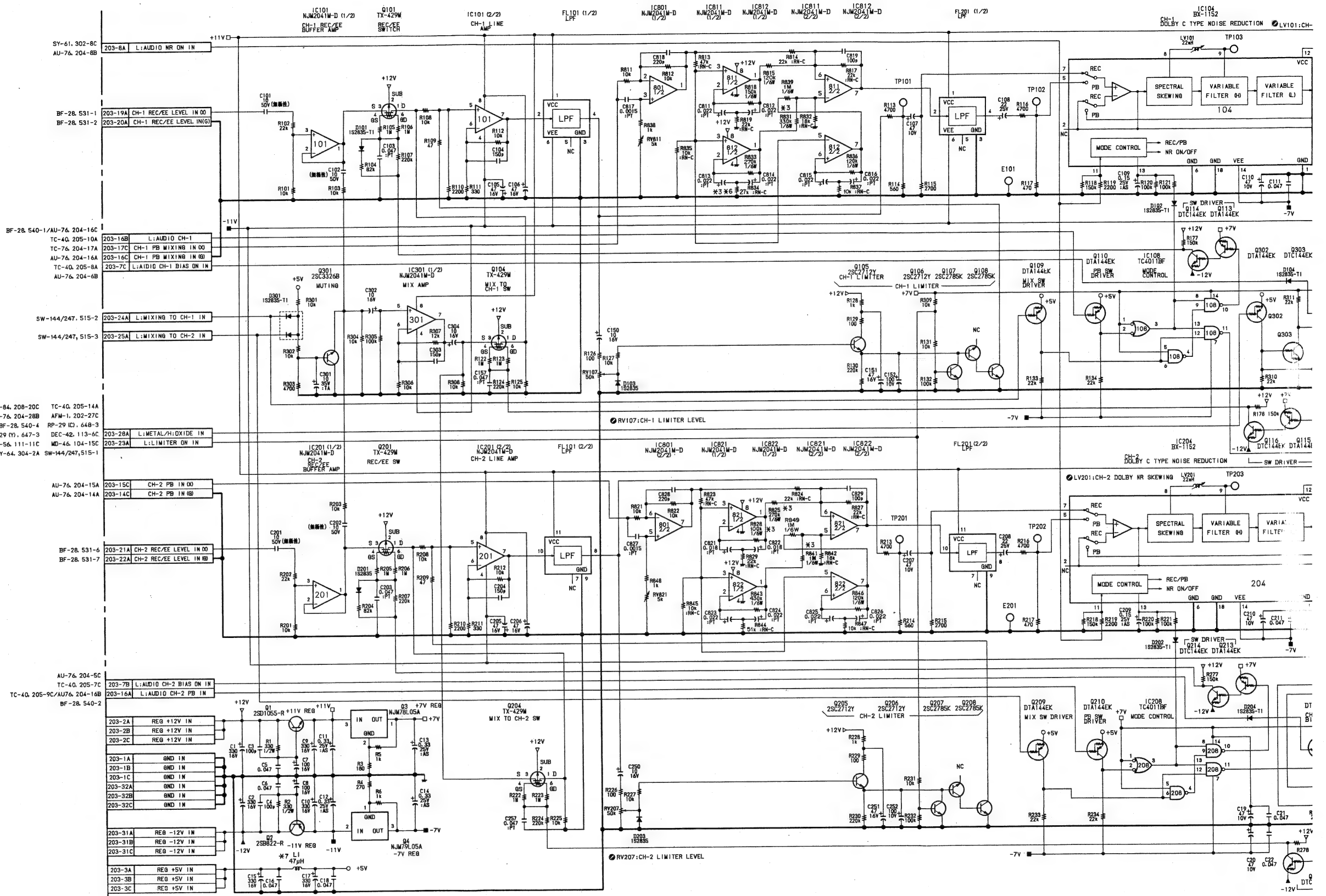


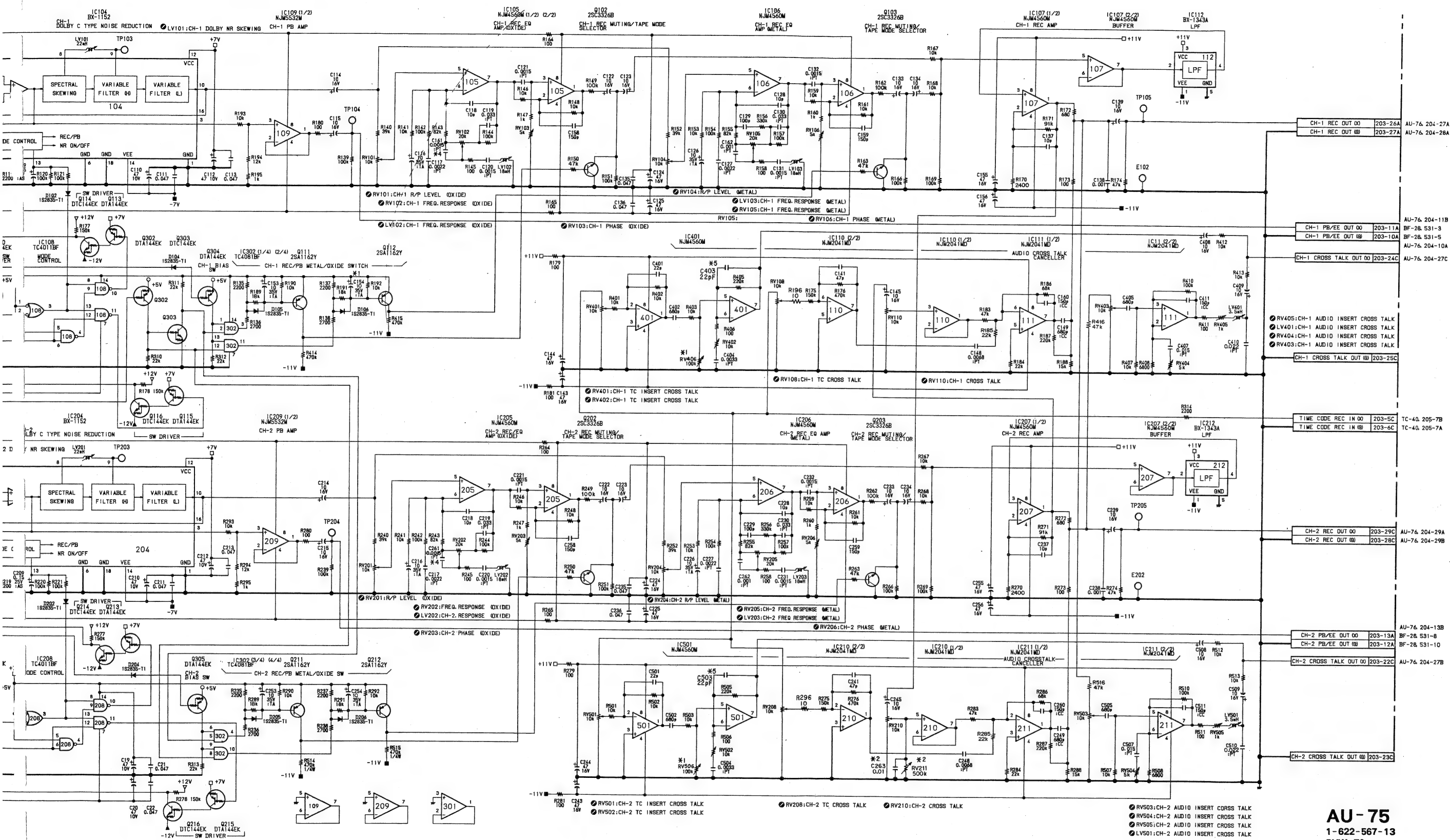
BF-28(3/3)
1-622-574-13, 14, 15
BVW-70
BVW-75
BVW-96

AU-75; LNG AUDIO REC/PB AMPLIFIER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R404 100k → RV406 100k R504 100k → RV506 100k	UC: S/N 13226 ~ J: S/N 11304 ~
*2	C263 0.01 ADDED RV211 500k ADDED	UC: S/N 14548 ~ J: S/N 11819 ~
*3	CHANGED R825 220k → 270k R828 180k → 100k R831 160k → 330k R834 47k → 39k R841 910k → 1M	UC: S/N 15127 ~ J: S/N 12189 ~
*4	C161 0.0033 → 0.0015 C261 0.0033 → 0.0015	UC: S/N 15800 ~ J: S/N 12469 ~
*5	ADDED C403, C503	UC: S/N 15737 ~ J: S/N 12419 ~
*6	R834 39k → 27k	UC: S/N 16143 ~ J: S/N 12689 ~
*7	L1 45μH → 47μH	UC: S/N 17065 ~ J: S/N 13244 ~



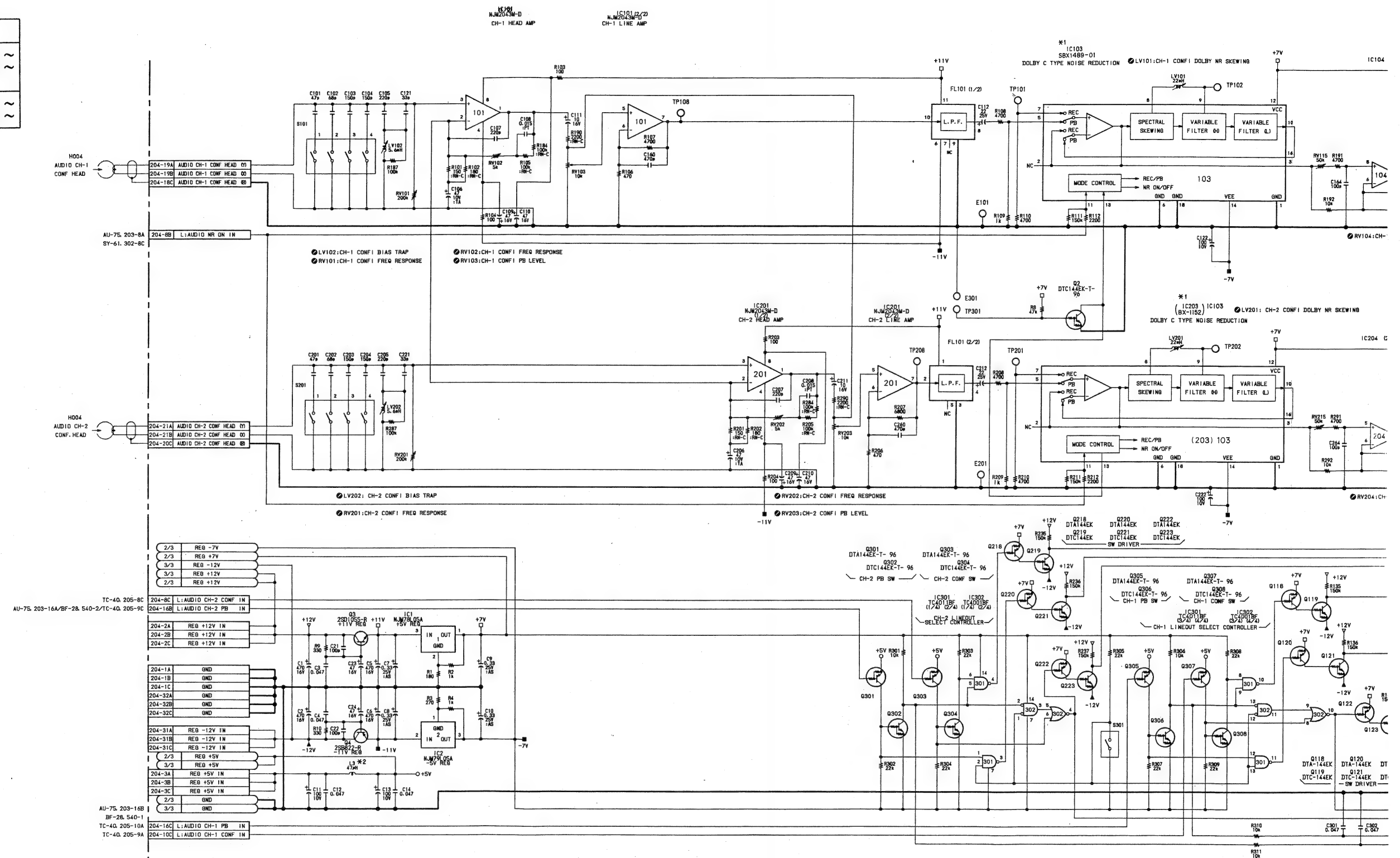


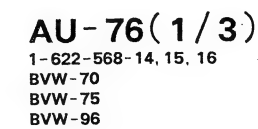
AU-75
1-622-567-13
BVW-70
BVW-75
BVW-96

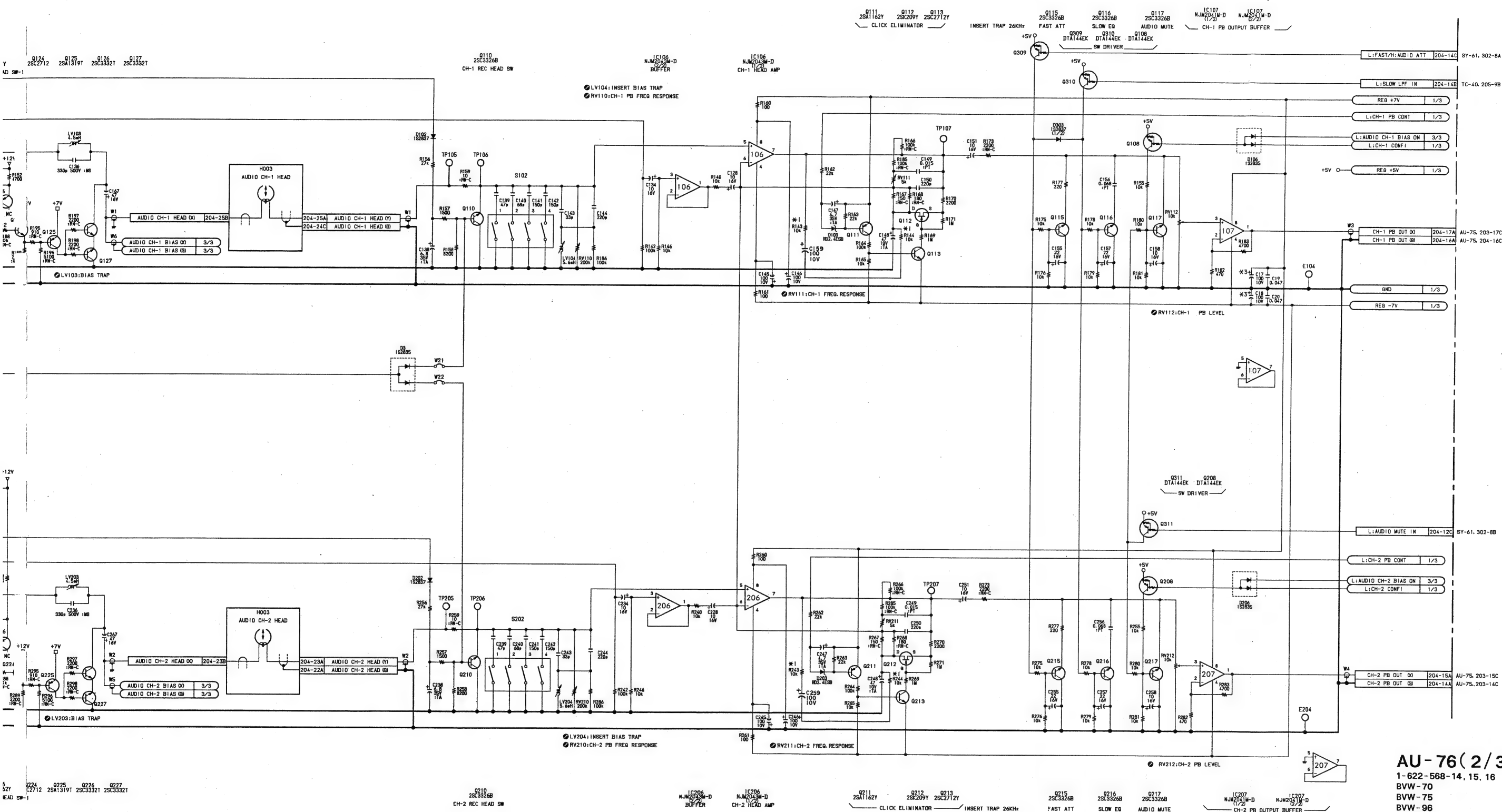
AU-76 (1/3) ; LNG AUDIO CONF1 PB AMPLIFIER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	IC103 BX1152 IC203 BX1152 → IC103 SBX1489-01	UC: S/N 14822 ~ J: S/N 12029 ~
*2	L3 45μH → 47μH	UC: S/N 17118 ~ J: S/N 13389 ~



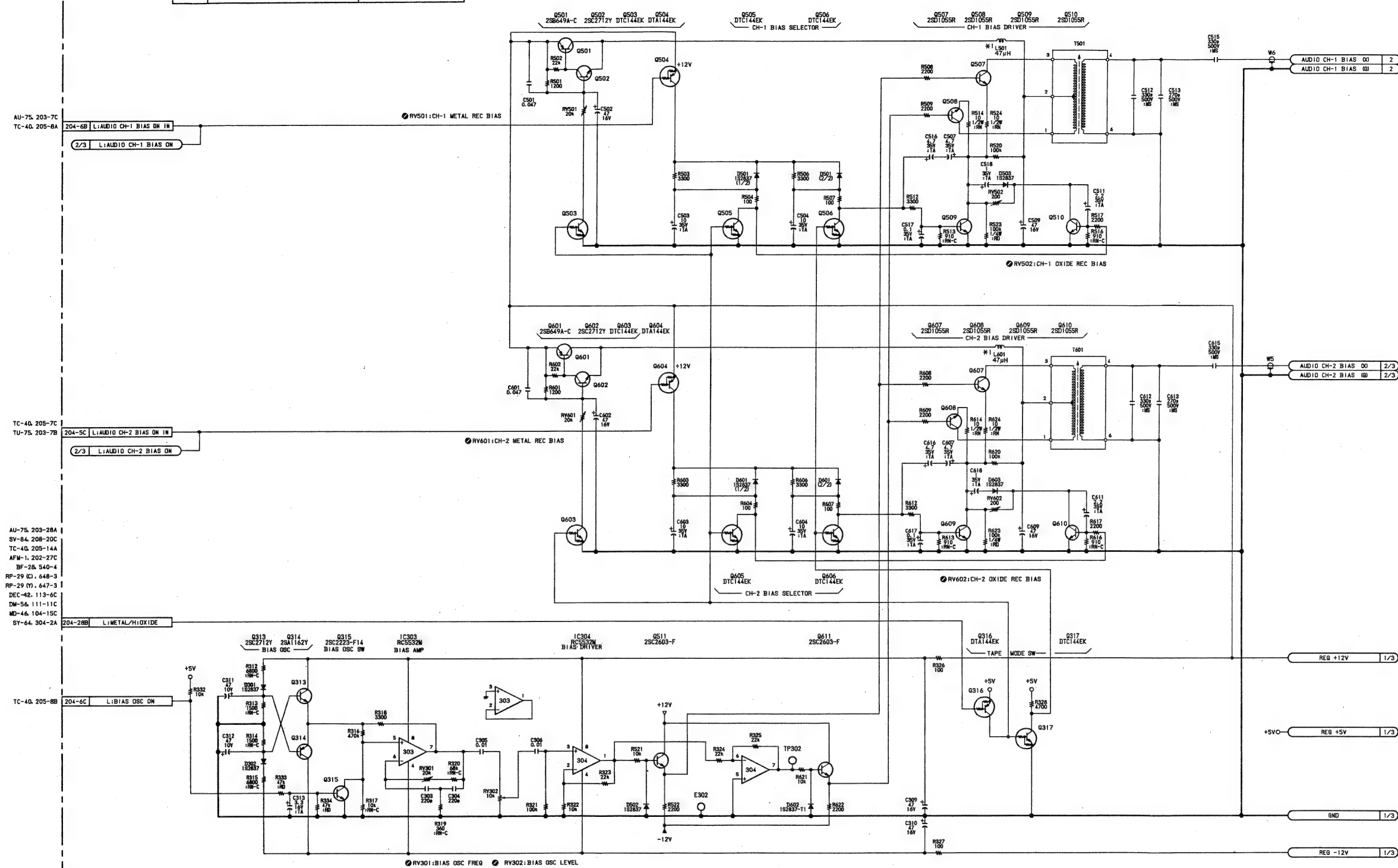




AU-76 (3/3) ; LNG AUDIO BIAS OSCILLATOR

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	L501, L601 45 μ H \rightarrow 47 μ H	UC: S/N 17118 ~ J: S/N 13389 ~



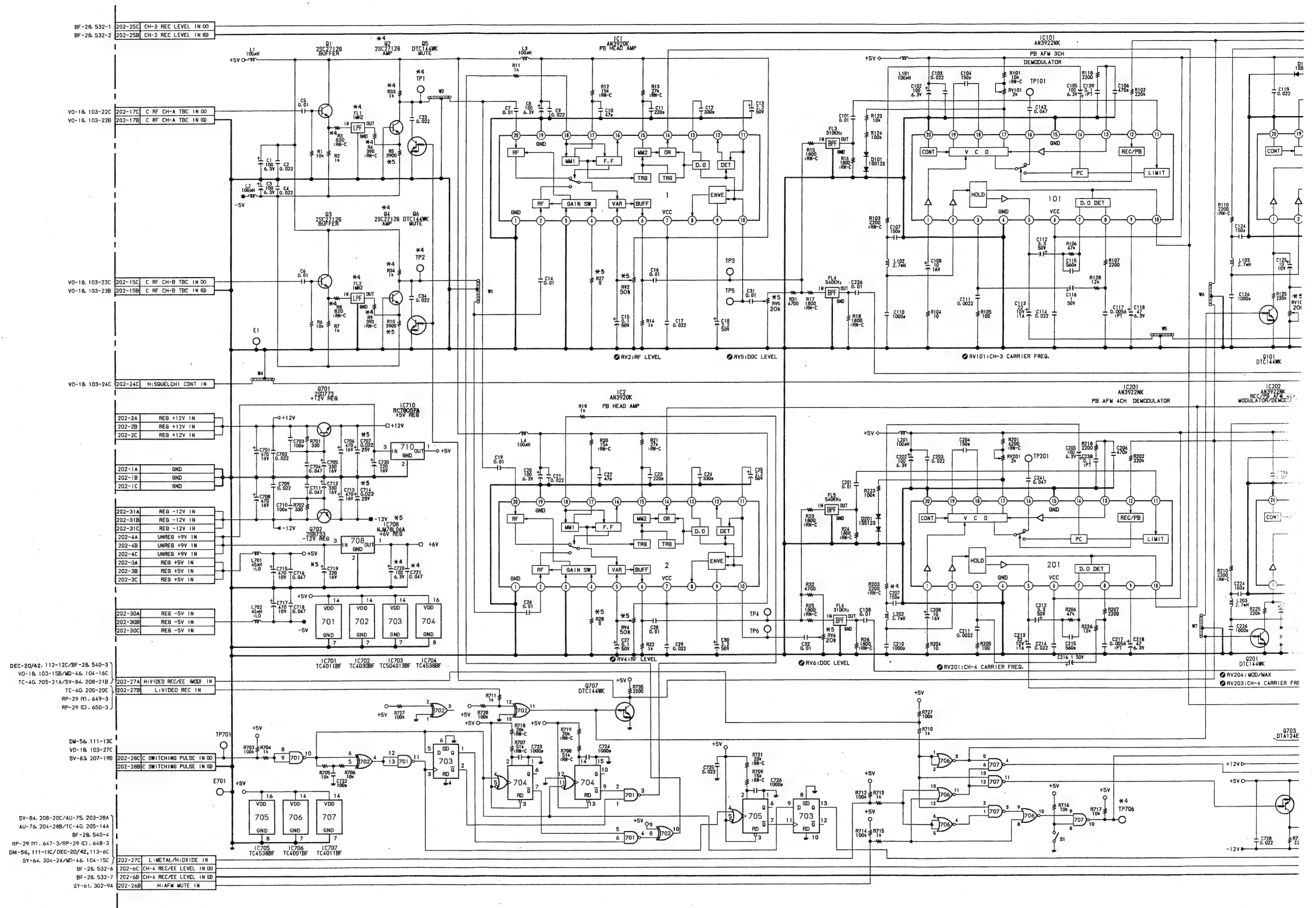
AU-76(3/3)

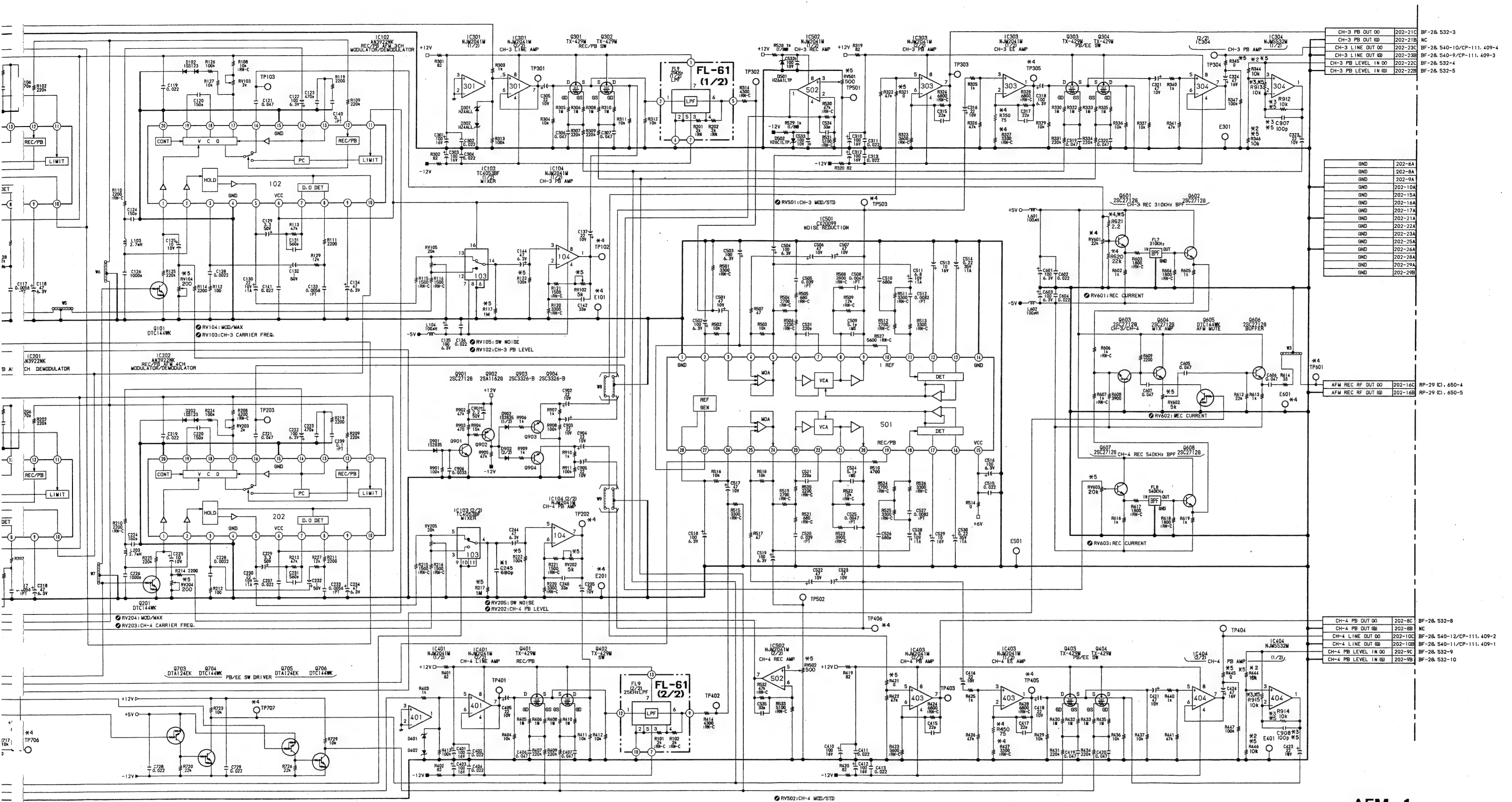
1-622-568-14, 15, 16
BVW-70
BVW-75
BVW-96

AFM-1 ; AUDIO FREQUENCY MODULATOR/DEMODULATOR
FL-61 ; LOW-PASS FILTER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	C245 680pF ADDED	UC; S/N 13411 ~ J; S/N 11404 ~
*2	DELETED R344, R444 CHANGE R346 100k → 0 R446 100k → 0	UC; S/N 14369 ~ J; S/N 11669 ~
*3	ADDED C907, C908, R912 R913, R914, R915	UC; S/N 14448 ~ J; S/N 11719 ~
*4	DELETED C720, C721, FL1, FL2 Q2, Q4, R4, R9, R33 R34, RV601, E101 E201, E601, TP1, TP2 TP102, TP202, TP305 TP405, TP406, TP503 TP601, TP706, TP707 CHANGE C207 100pF → 150pF R3 390 → 820 R8 390 → 820 R327 2200 → 3300 R427 2200 → 3300 R620 22k ADDED R621 2.2 ADDED RV304 10k → R350 75 RV404 10k → R450 75	UC; S/N 14657 ~ J; S/N 11949 ~
*5	DELETED C719, C907, C908 IC708, R5, R10, R27 R28, R122, R222, R321 R345, R421, R445 R621, R912, R913 R914, R915 CHANGED C707 0.33/50V → 0.022/25V C714 0.33/50V → 0.022/25V R117 100k → 1M R217 100k → 1M R344 1k → 10k R346 0 → 10k R444 1k → 10k R446 0 → 10k RV2 47k → 50k RV4 47k → 50k RV5 22k → 20k RV6 22k → 20k RV102 4700 → 5k RV104 220 → 200 RV202 4700 → 5k RV204 220 → 200 RV501 1k → 500 RV502 1k → 500 RV602 4700 → 5k RV603 22k → 20k	UC; S/N 14932 ~ J; S/N 12119 ~

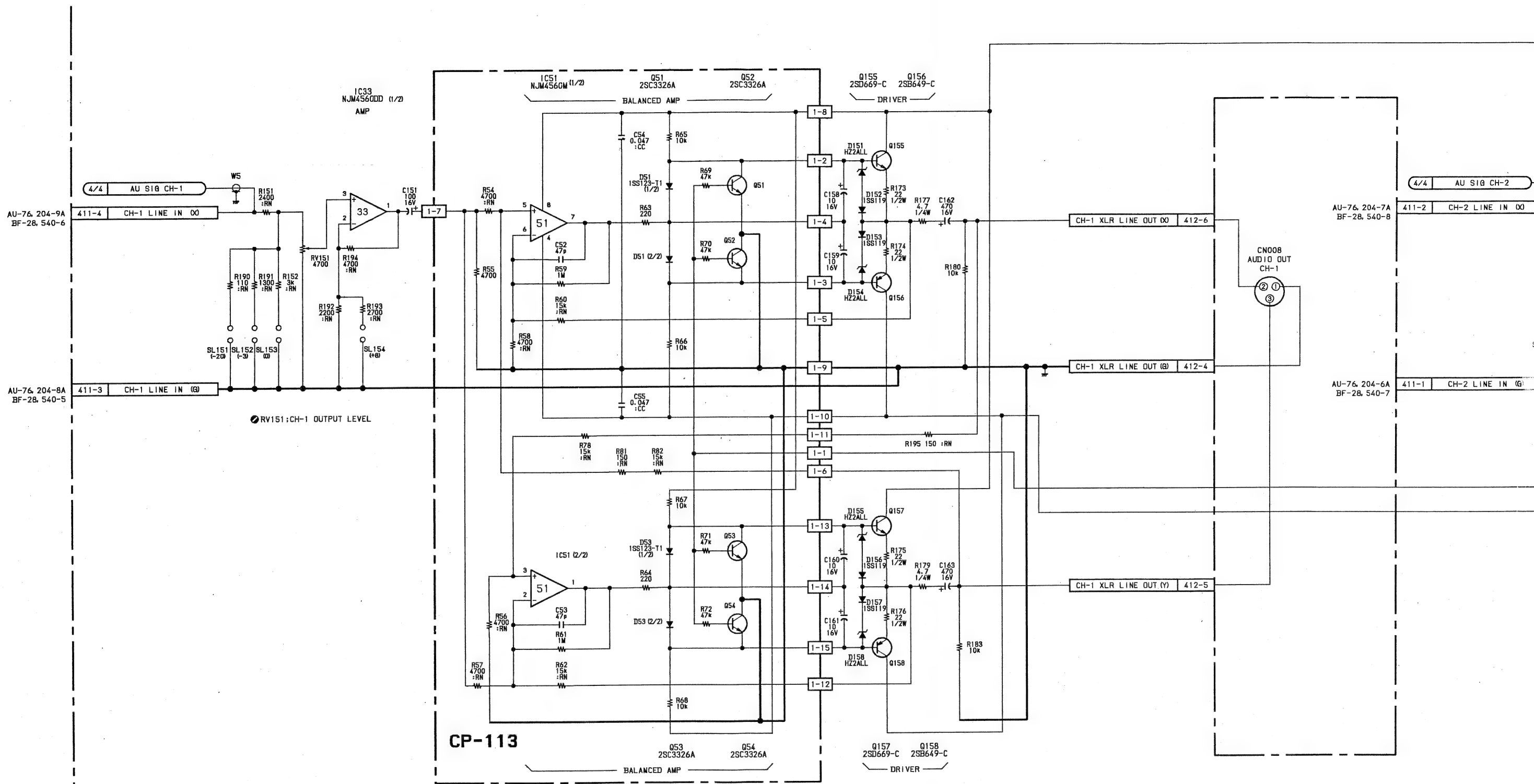




AFM-1
1-622-569-12,13
BVW-70
BVW-75
BVW-96

CP-111 (1/4) ; AUDIO OUTPUT AMPLIFIER/DRIVER
CP-113 ; AUDIO BALANCED AMPLIFIER

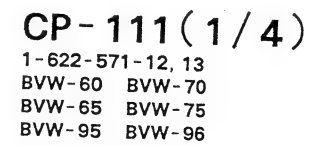
UC; Up to S/N 16569
J; Up to S/N 13023



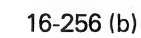
16-255 (a)

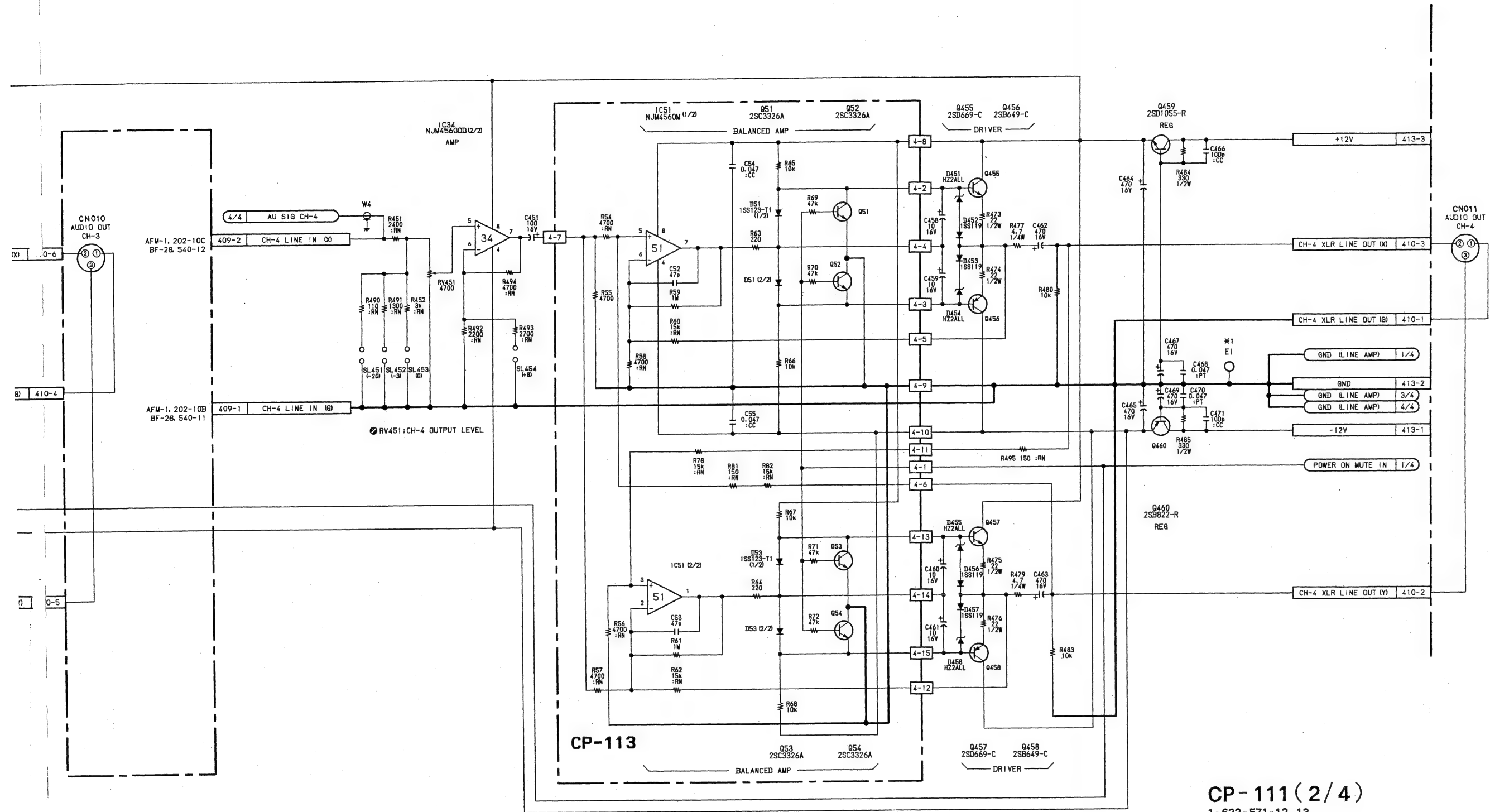
16-256 (a)

H



UC; S/N 16570 and higher
J; S/N 13024 and higher



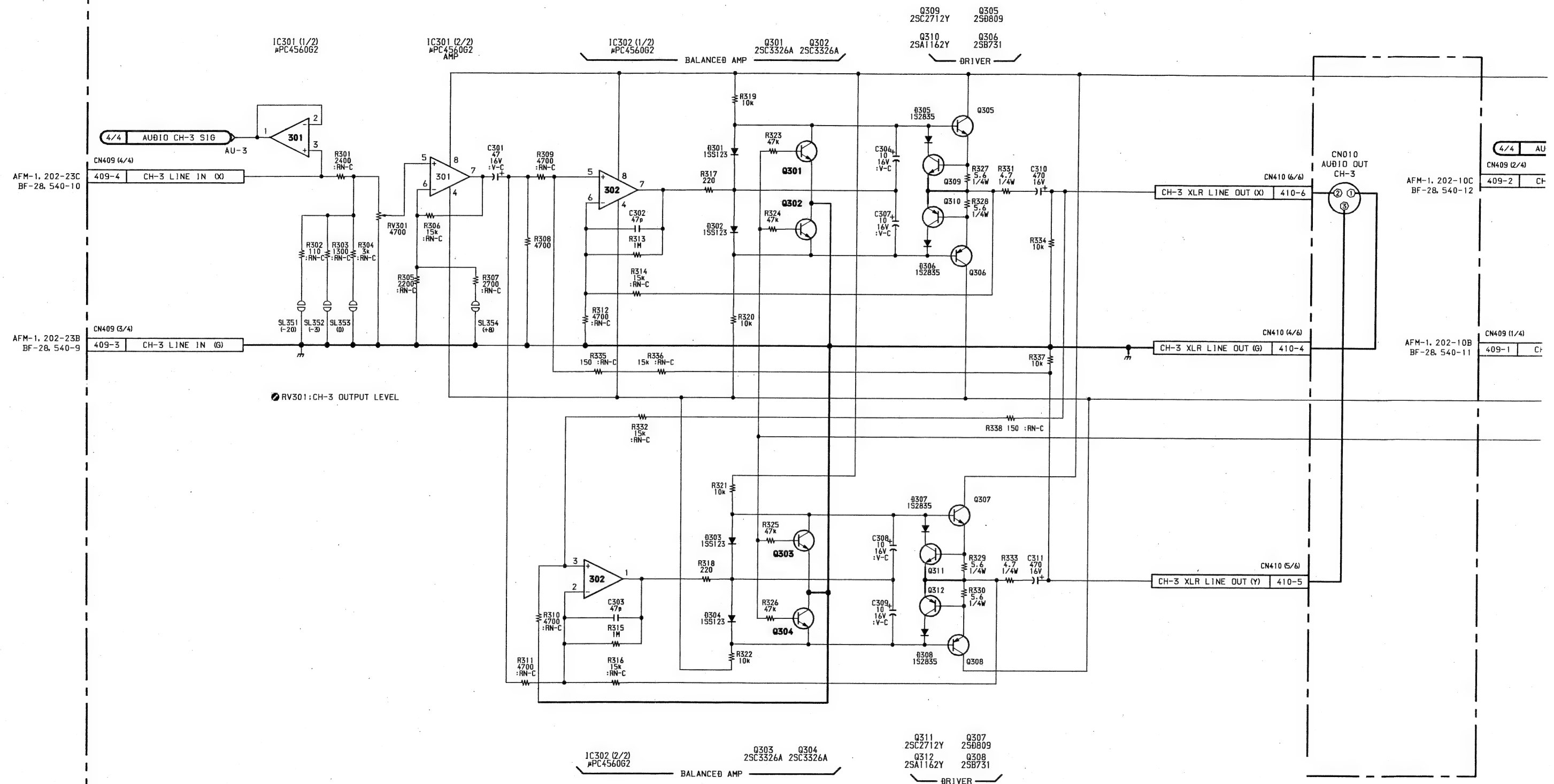


CP-111 (2/4)

1-622-571-12, 13
BVW-60 BVW-70
BVW-65 BVW-75
BVW-95 BVW-96

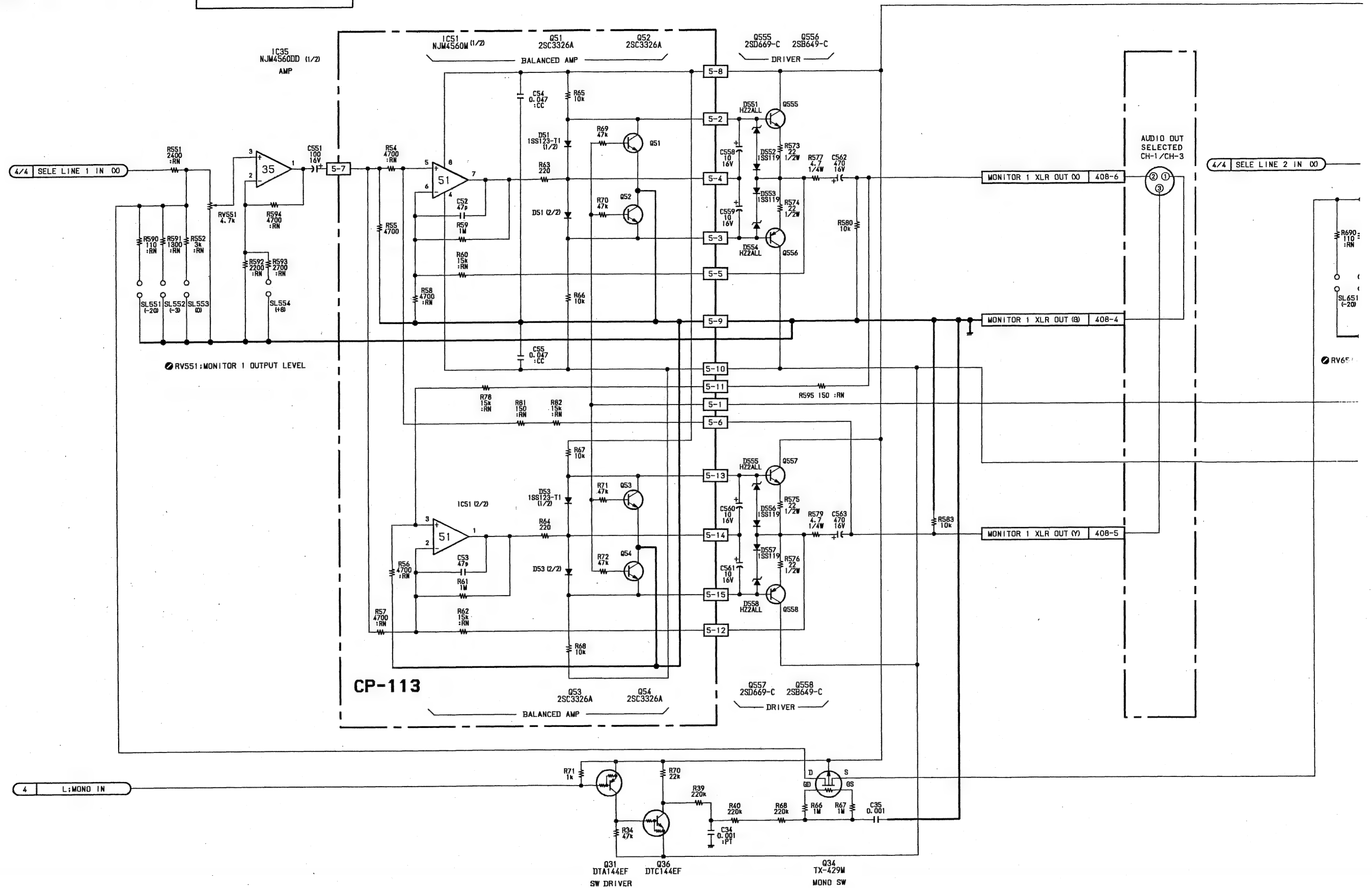
CP-161A (2/4); AUDIO OUTPUT BALANCED AMPLIFIER/DRIVER

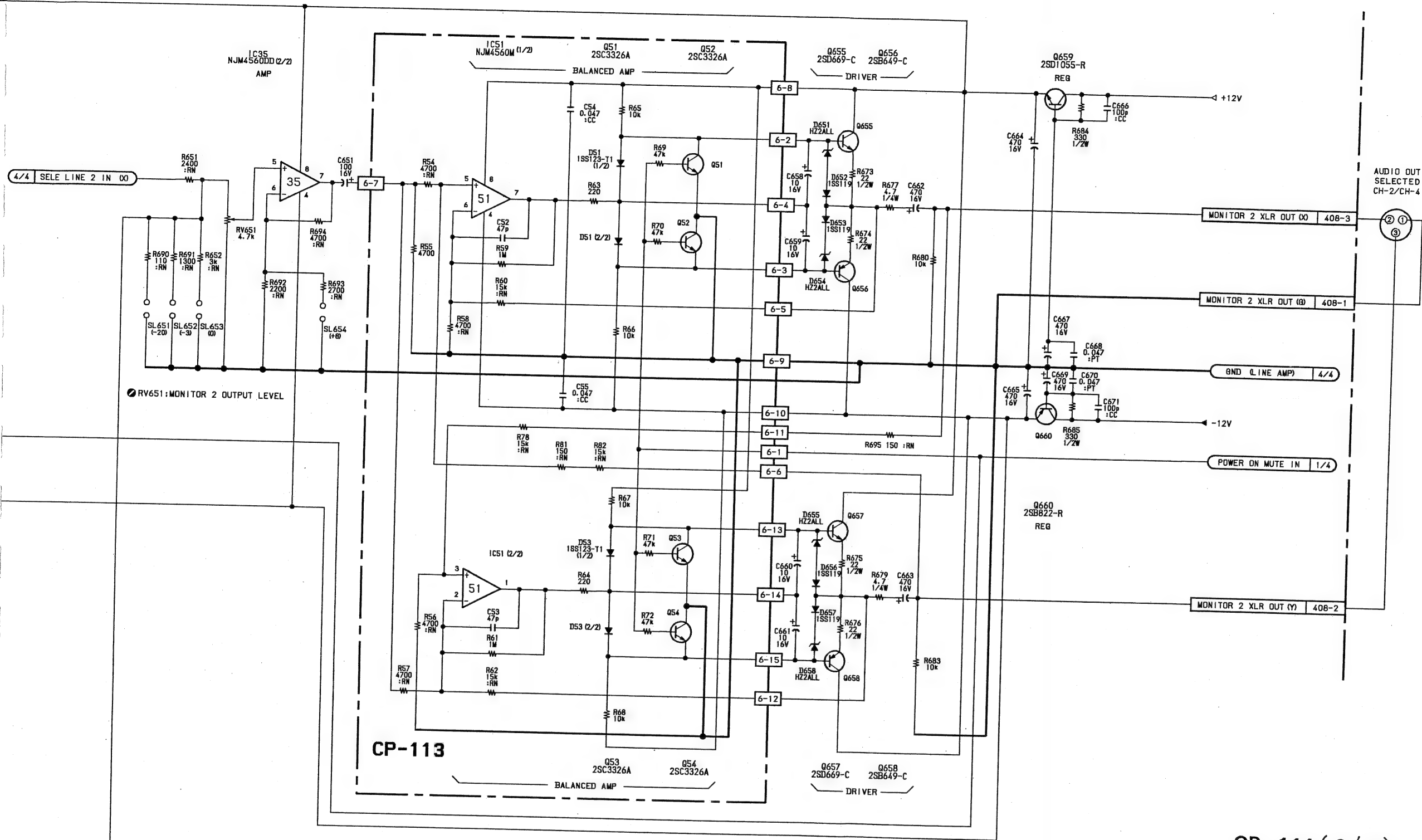
UC; S/N 16570 and higher
J; S/N 13024 and higher



CP-111 (3/4); AUDIO OUTPUT AMPLIFIER/DRIVER
CP-113; AUDIO BALANCED AMPLIFIER

UC; Up to S/N 16569
J; Up to S/N 13023

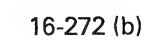


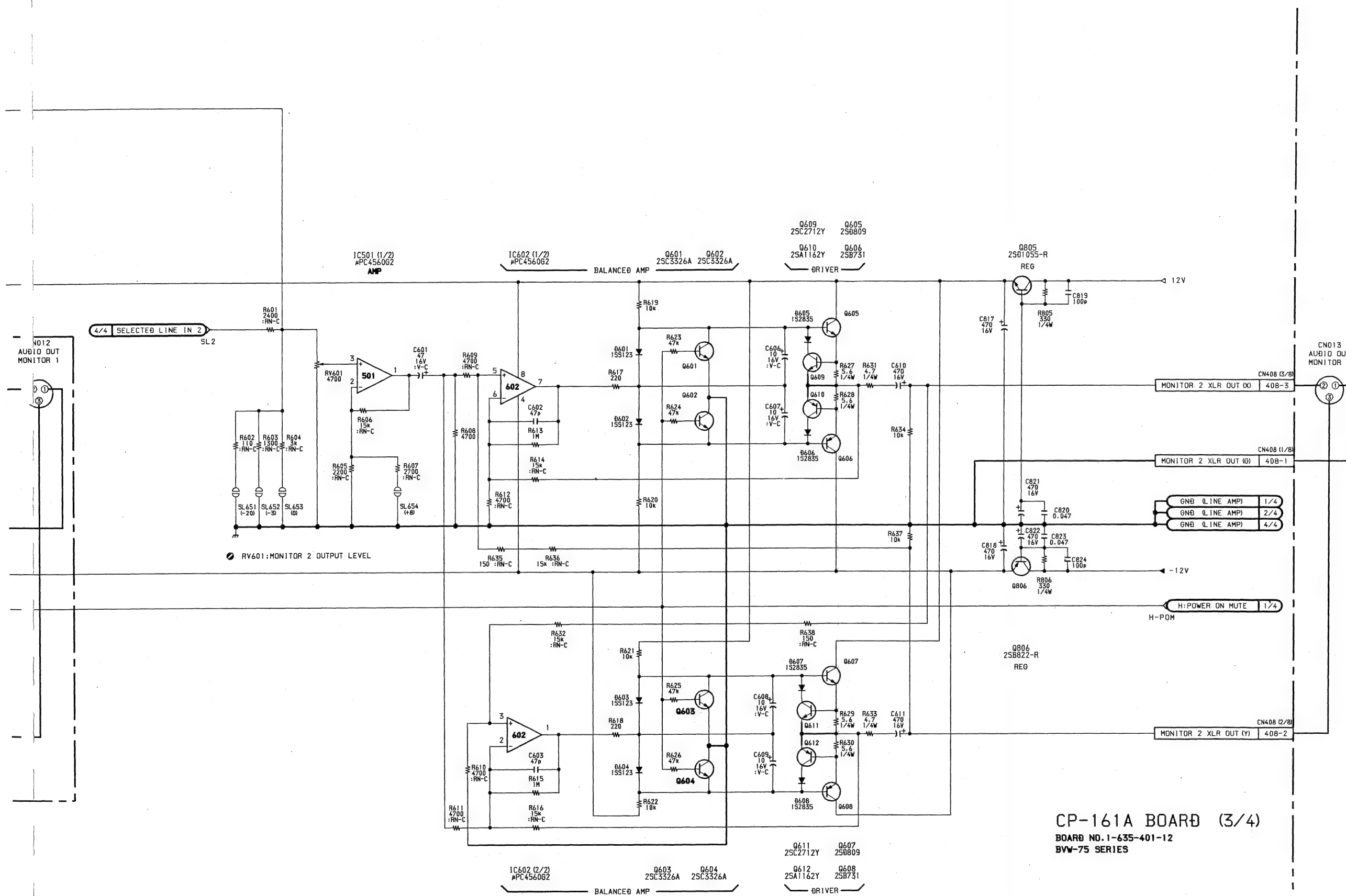


CP-111 (3/4)

1-622-571-12, 13
BVW-60 BVW-70
BVW-65 BVW-75
BVW-95 BVW-96

UC; S/N 16570 and higher
J; S/N 13024 and higher



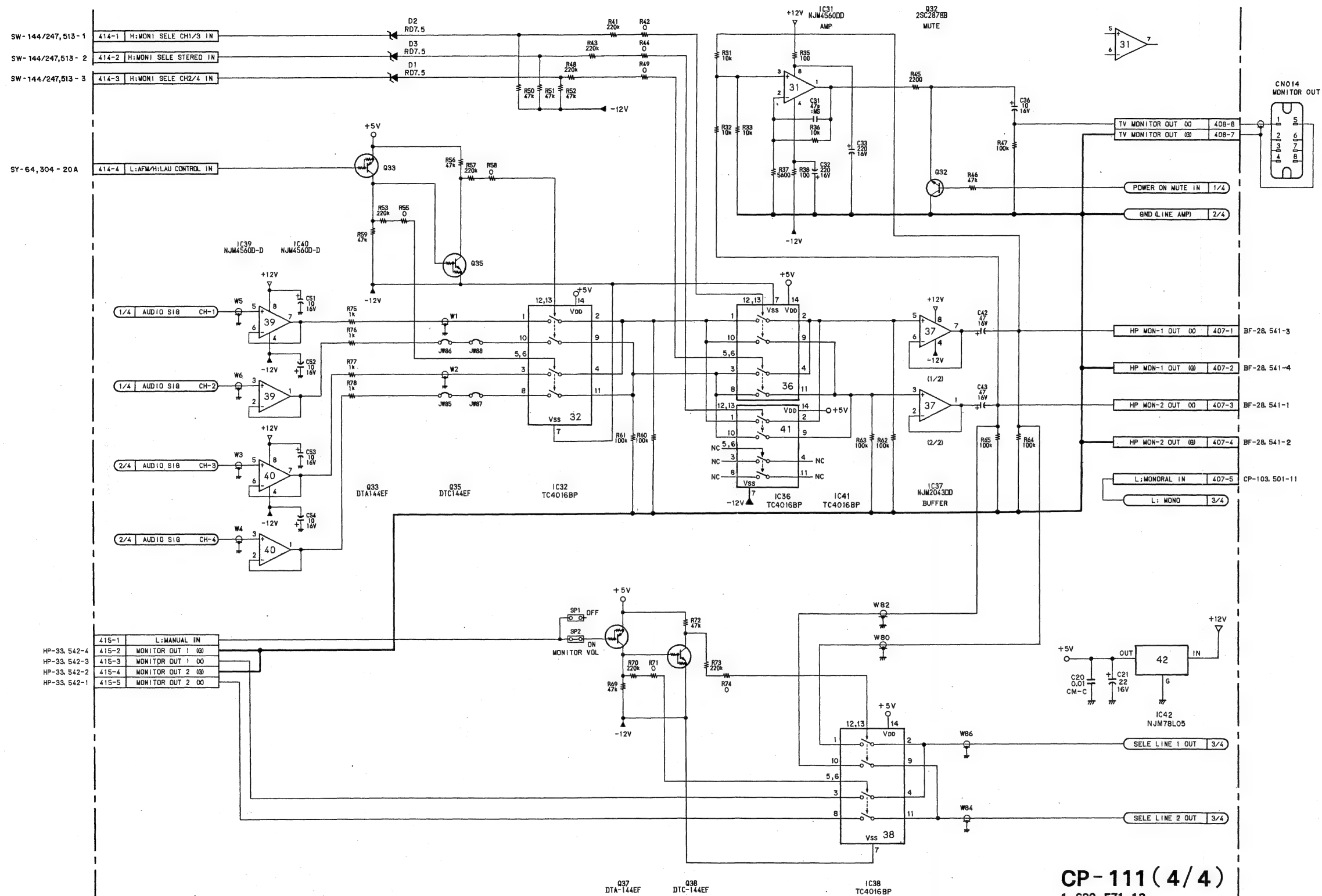


16-273 (b)

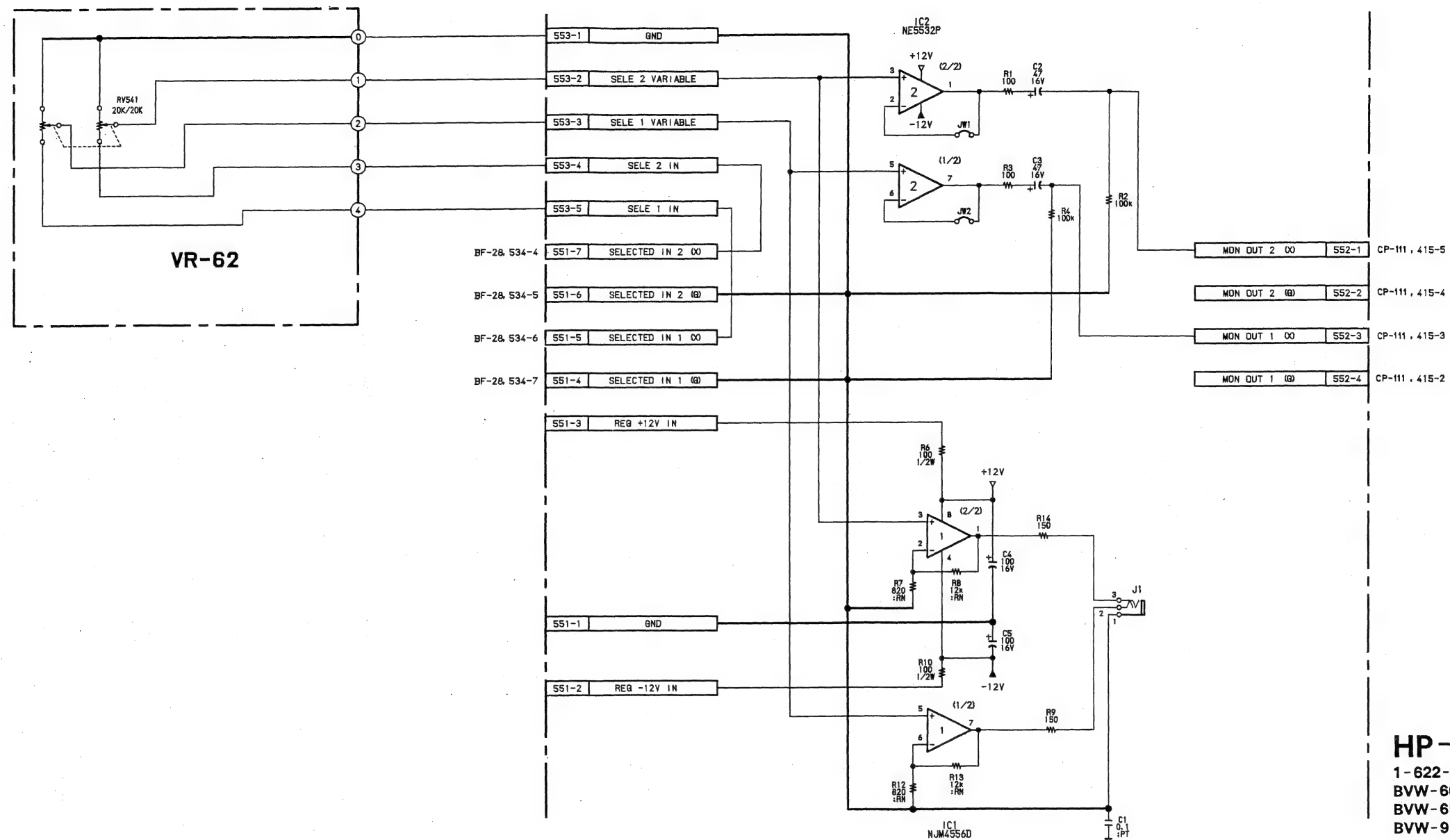
16-274 (b)

CP-111 (4/4); AUDIO MONITOR SELECT/OUTPUT
 HP-33; HEADPHONES AMPLIFIER/JACK
 VR-62; HEADPHONES LEVEL VOLUME

UC; Up to S/N 16569
 J; Up to S/N 13023

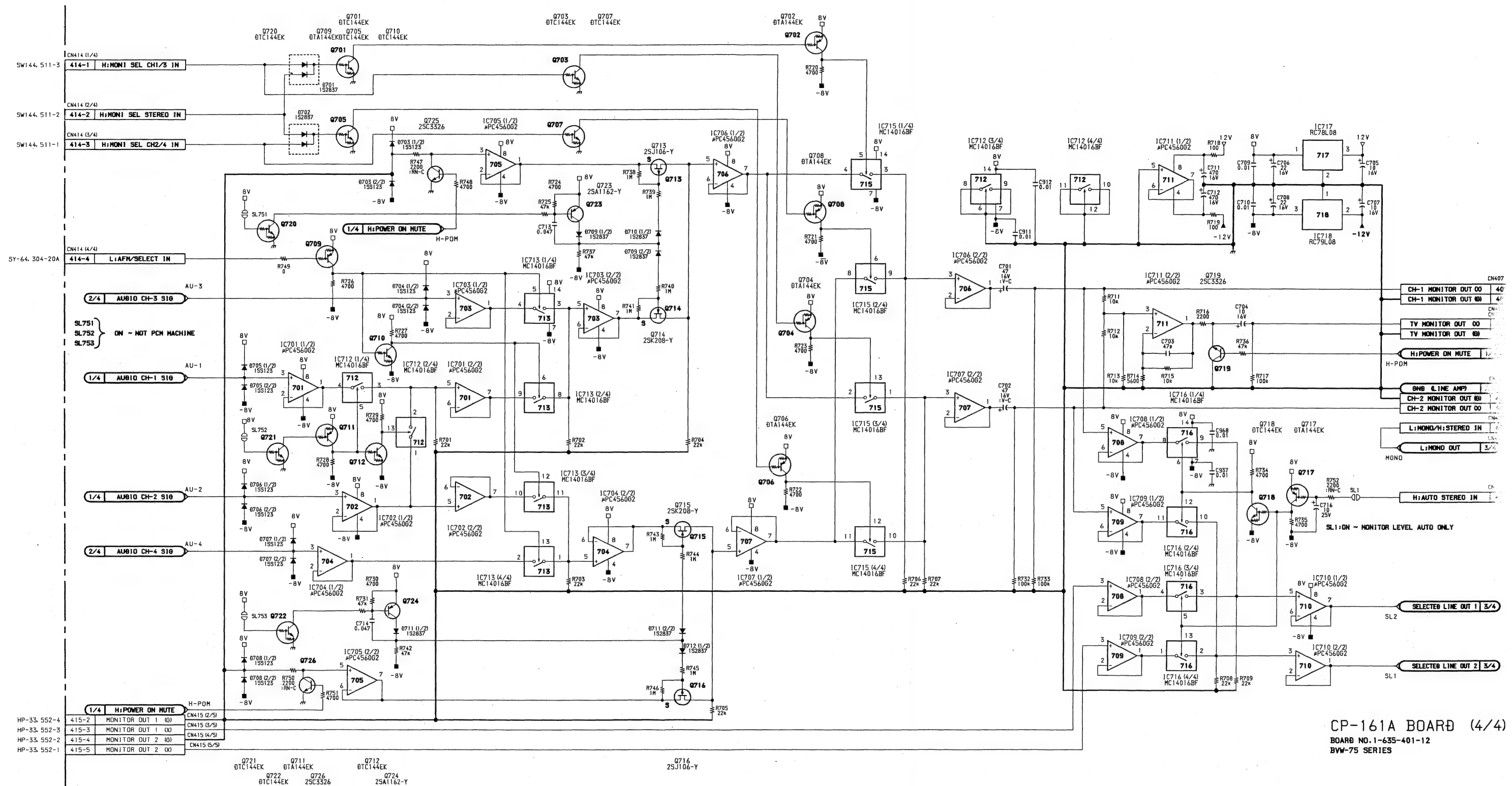


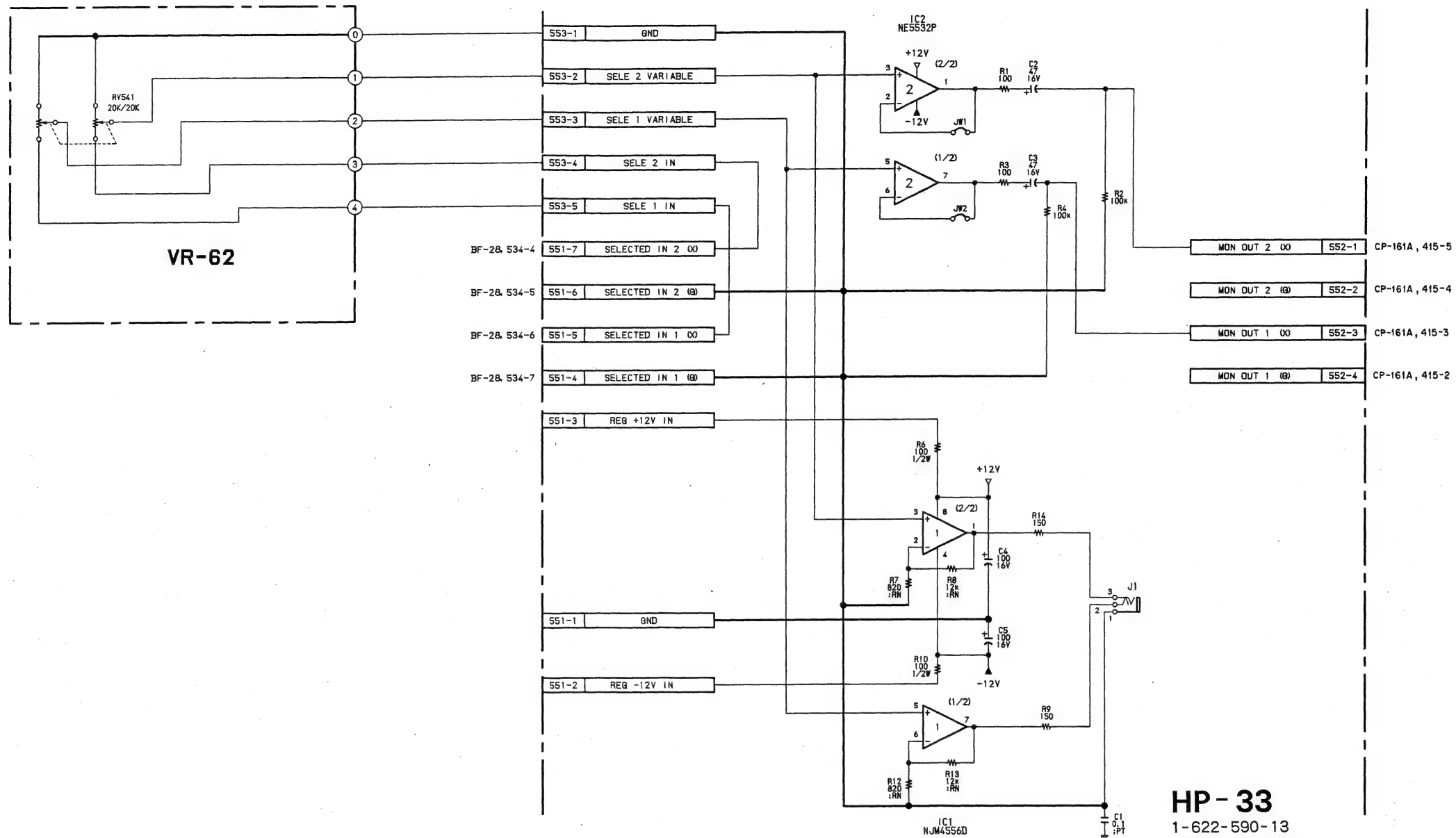
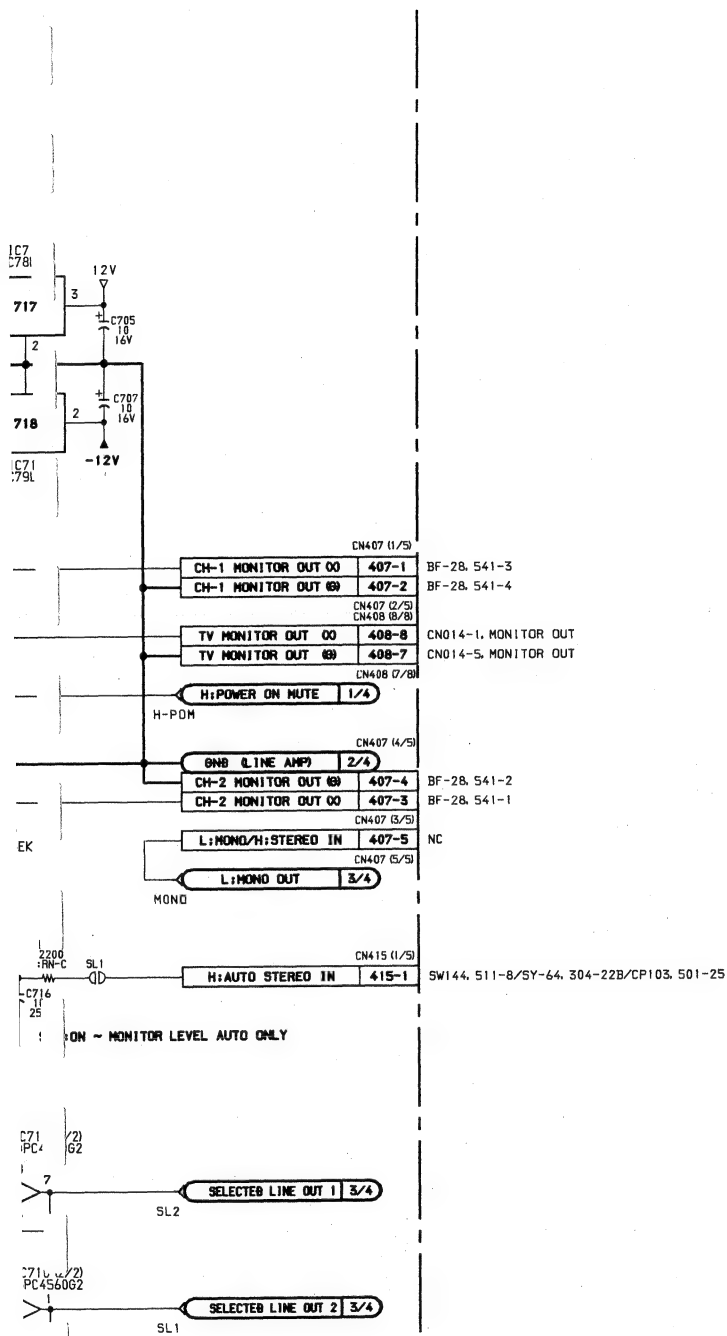
CP-111 (4/4)
 1-622-571-13
 BVW-60 BVW-70
 BVW-65 BVW-75
 BVW-95 BVW-96



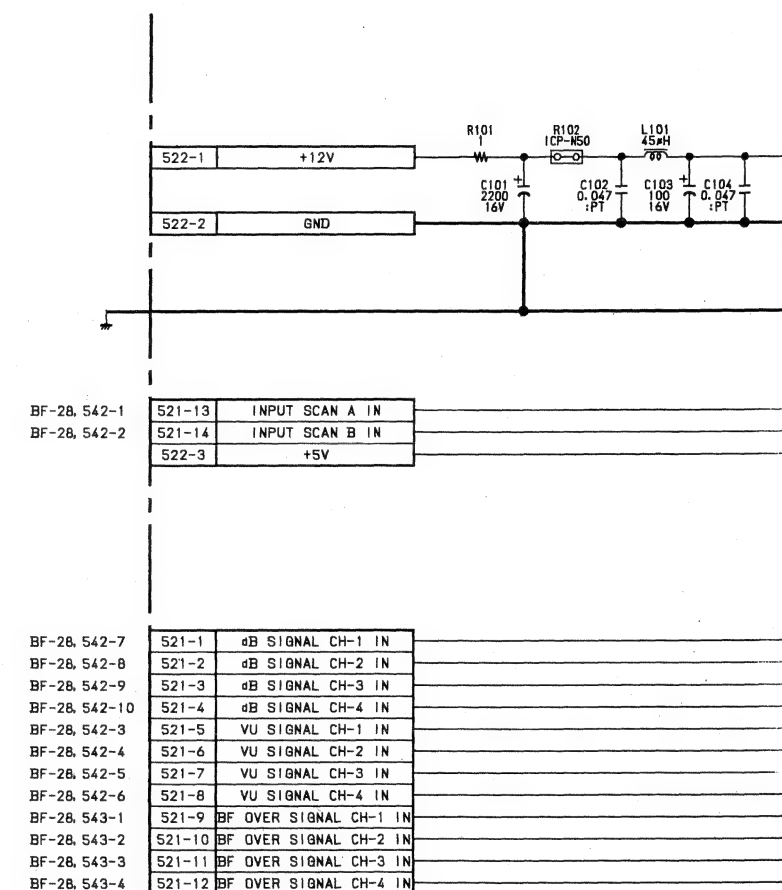
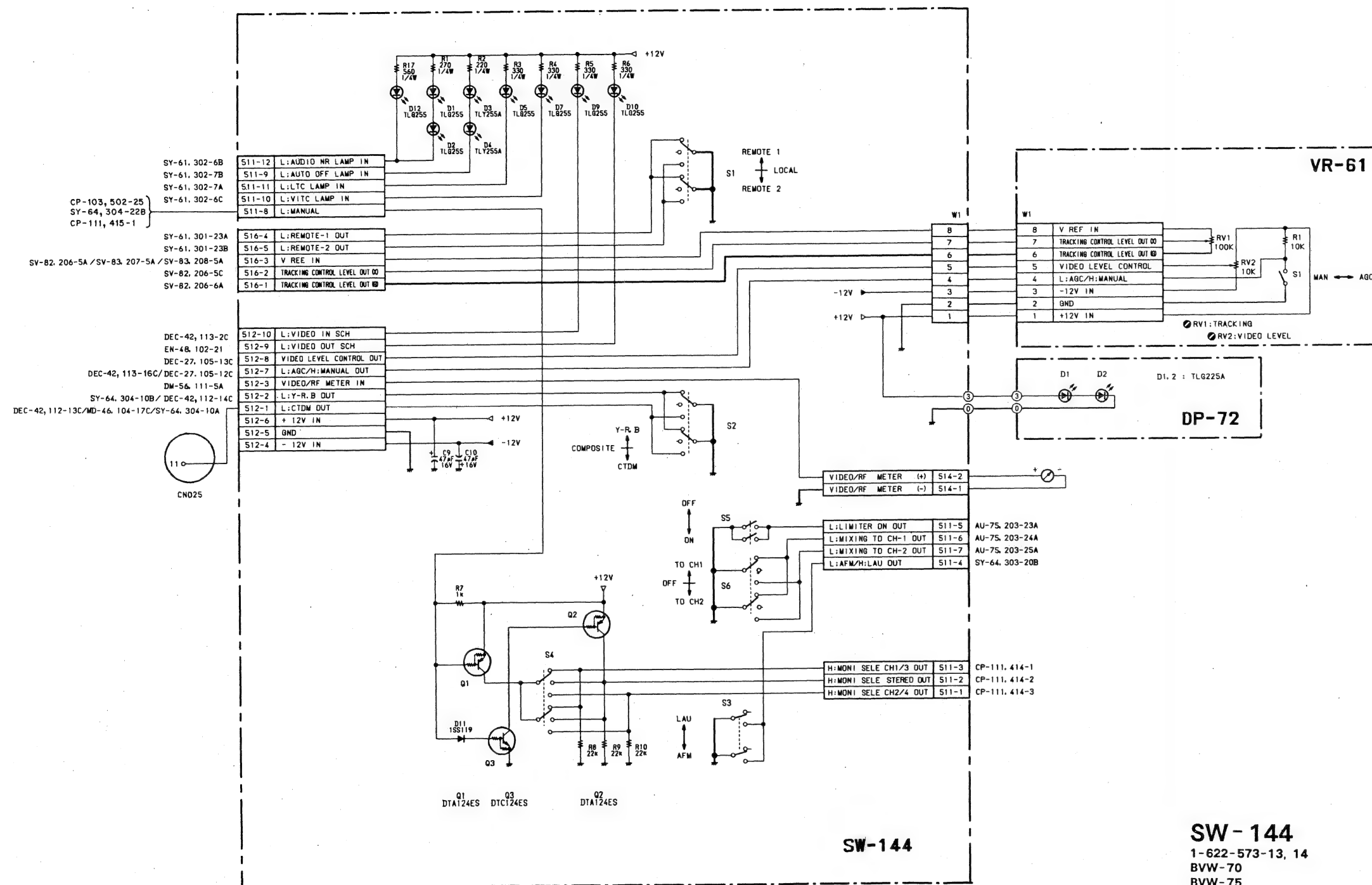
CP-161A (4/4); AUDIO OUTPUT BALANCED AMPLIFIER/DRIVER
 HP-33; HEADPHONES AMPLIFIER/JACK
 VR-62; HEADPHONES LEVEL VOLUME

UC; S/N 16570 and higher
 J; S/N 13024 and higher

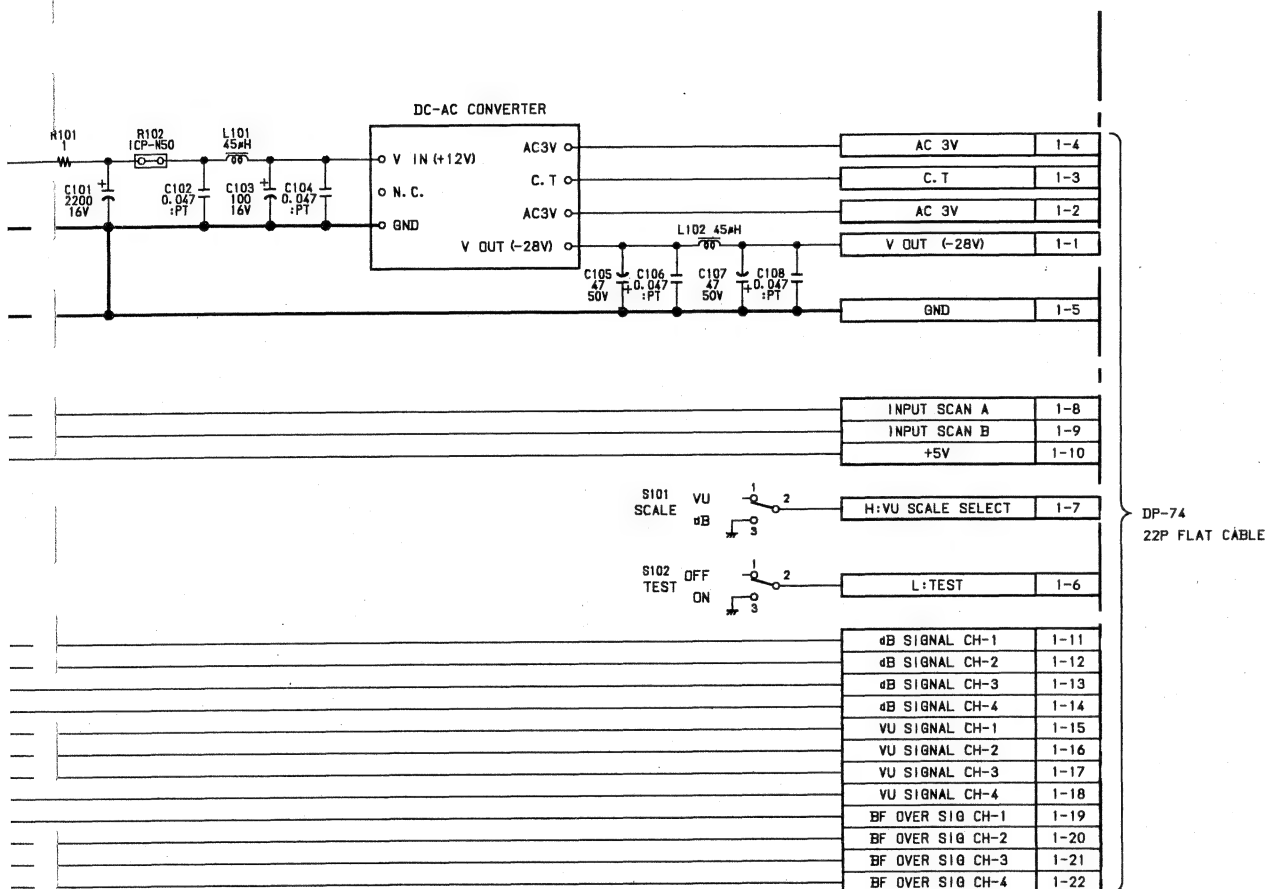




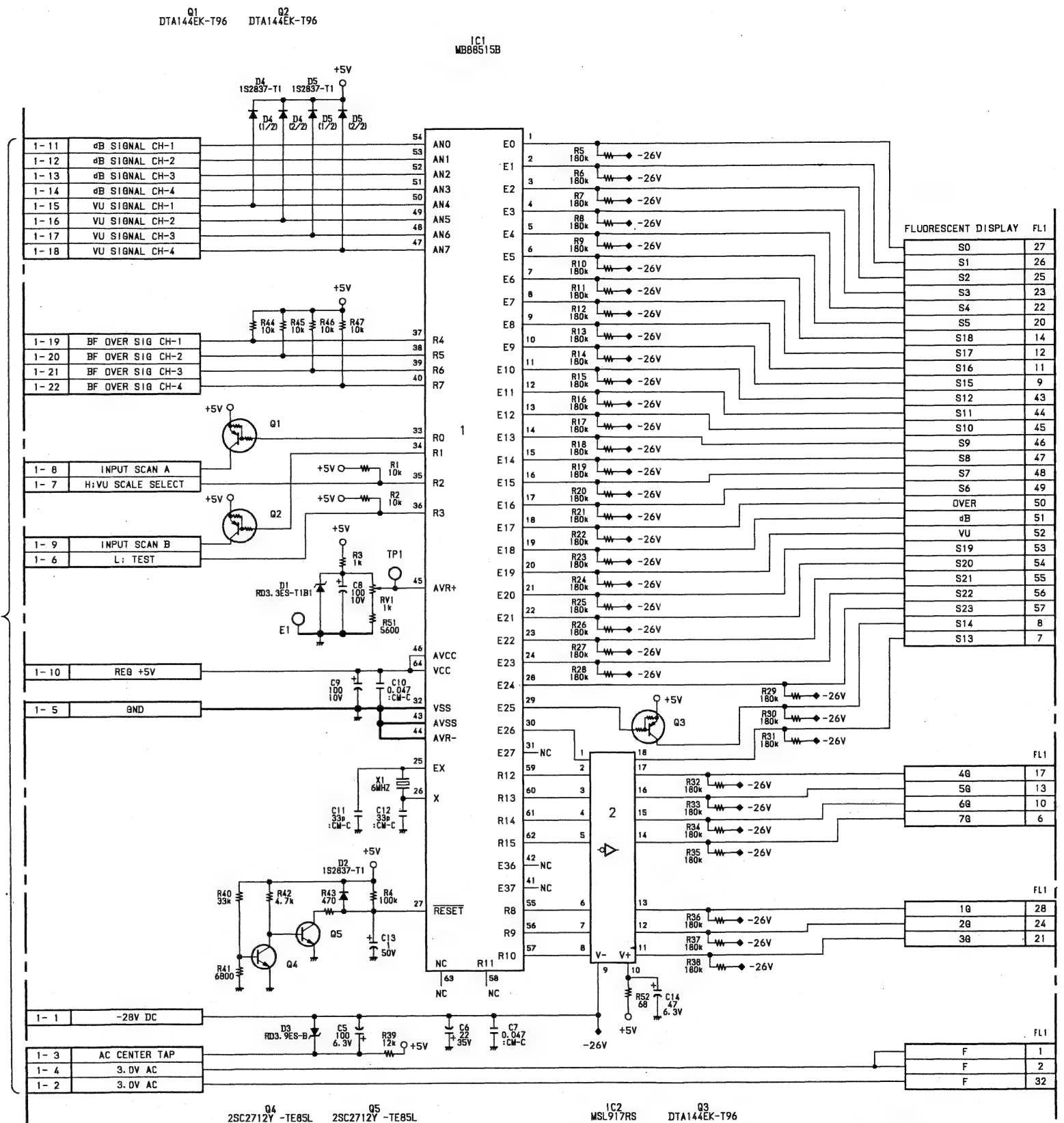
SW-144; SELECT SWITCH/DISPLAY
 VR-61; VIDEO TRACKING CONTROL VOLUME
 DP-72; VIDEO/RF METER LED
 DP-74; AUDIO LEVEL METER CONTROLLER/DRIVER
 DP-73; DC-AC/DC CONVERTER



SW-144
 1-622-573-13, 14
 BVW-70
 BVW-75

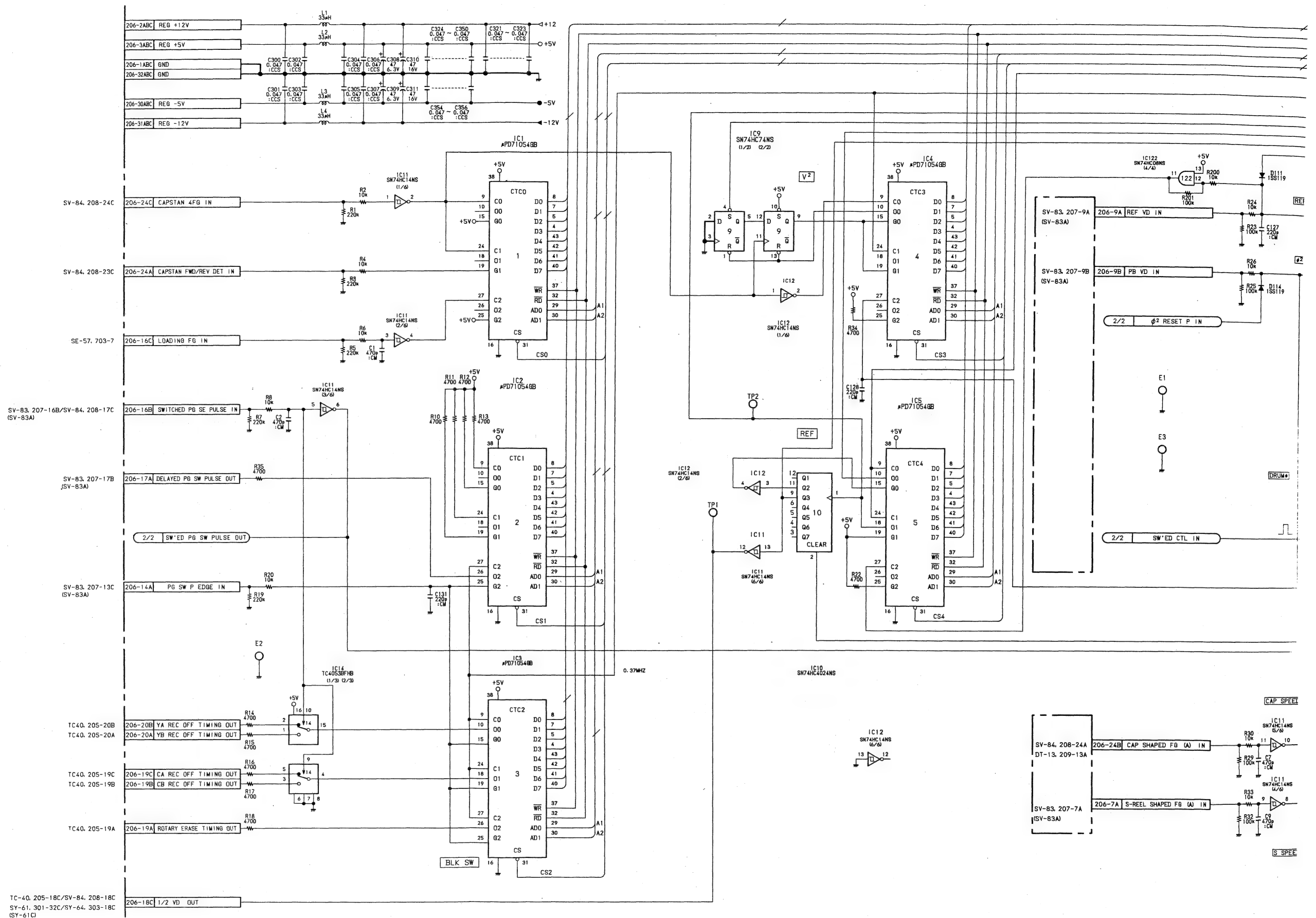
**DP-73**

1-622-575-12
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

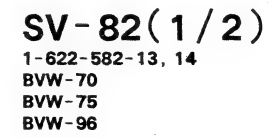
**DP-74**

1-622-576-12
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

TC-40, 205-18C/SY-84, 208-18C
SY-61, 301-32C/SY-64, 303-18C
(SY-61C)

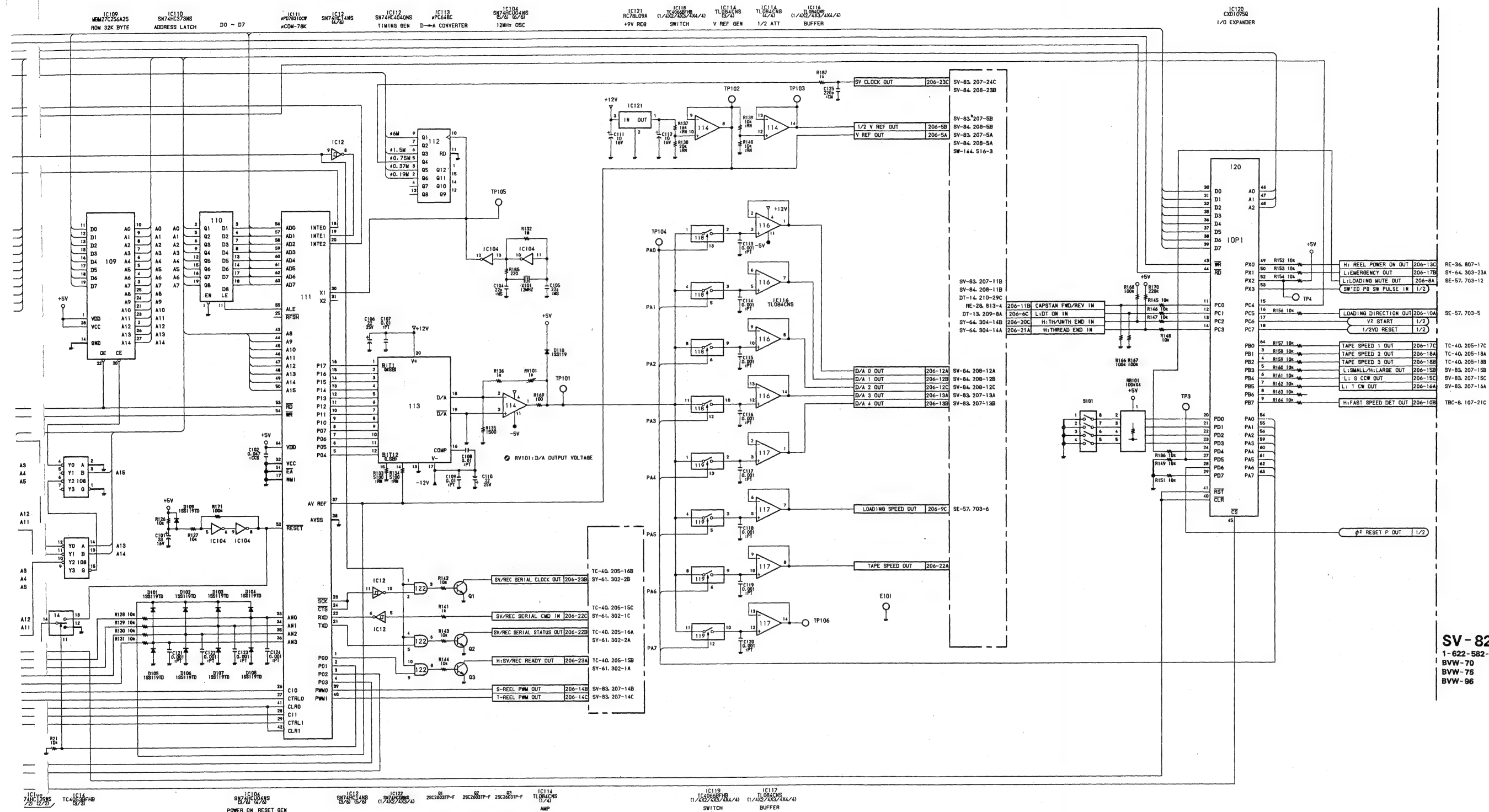


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SV-82(2 / 2)

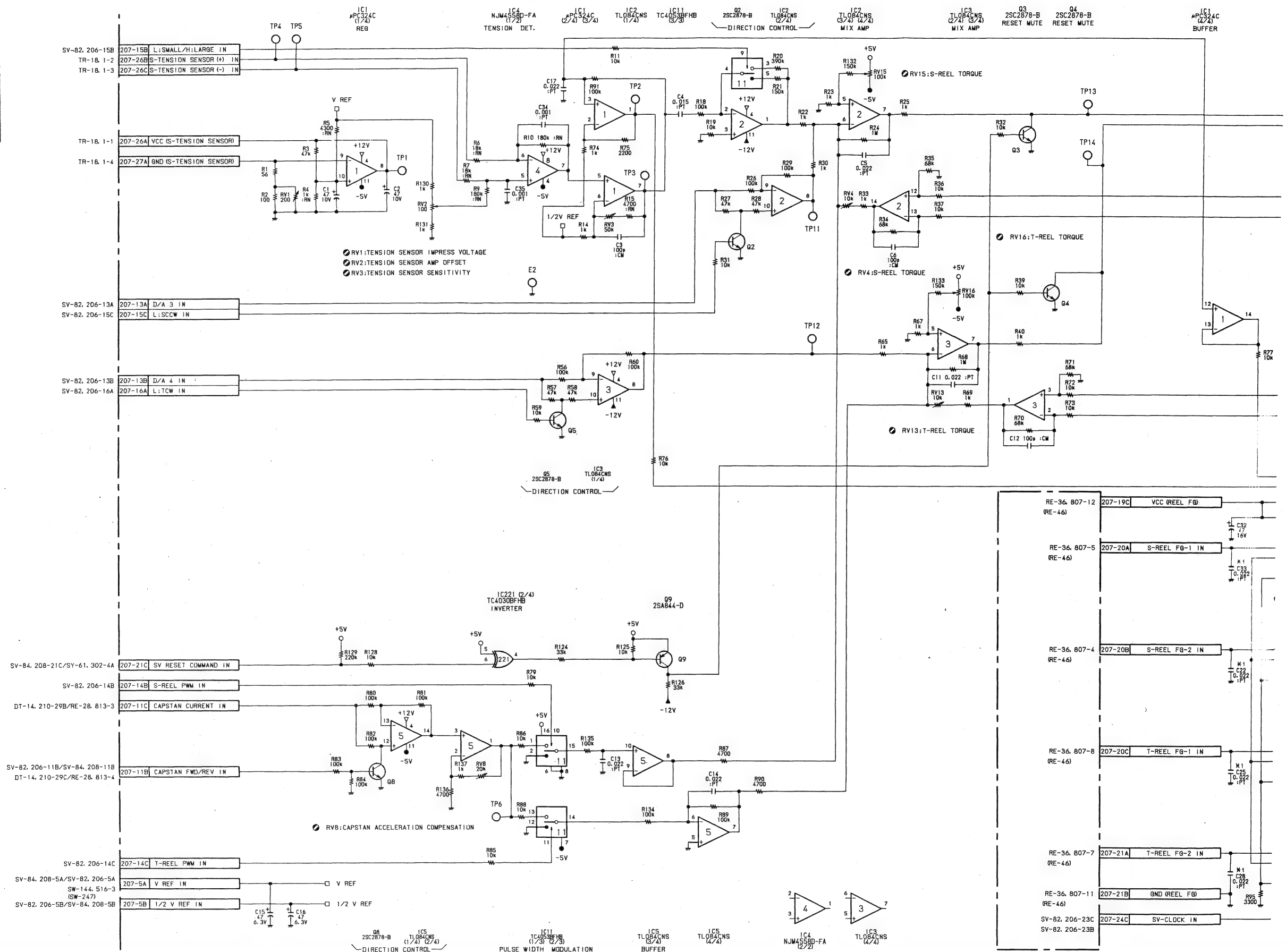
1-622-582-13, 14

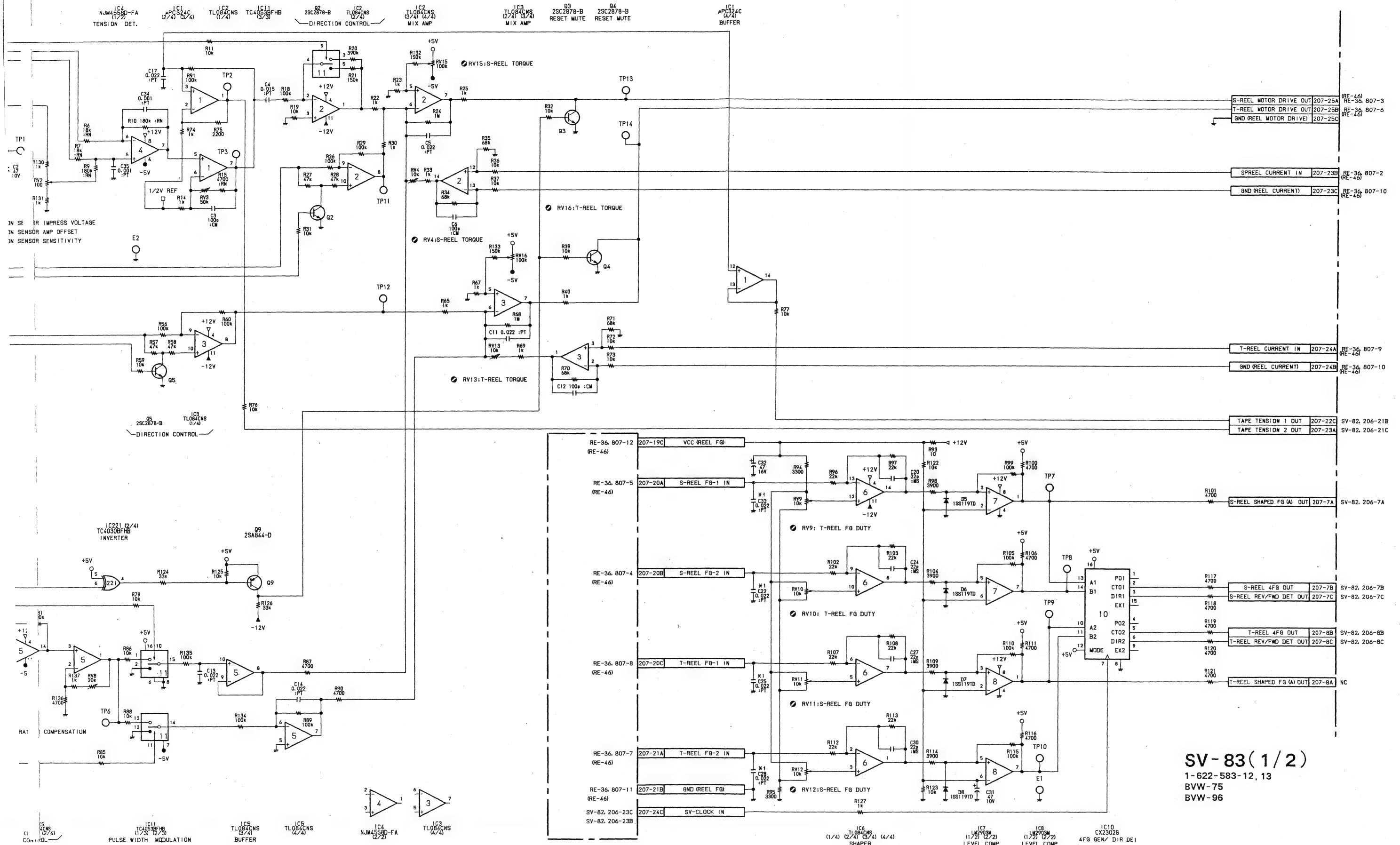
BVW-70

| BVW-75

BVW-75
BVW-96

NOTE		
MARK	CHANGE INFORMATION	SERIAL NO.
*1	C22 0.033 →0.022	UC; S/N 13975 ~
	C25 0.033 →0.022	J ; S/N 11569 ~
	C28 0.033 →0.022	
	C33 0.033 →0.022	



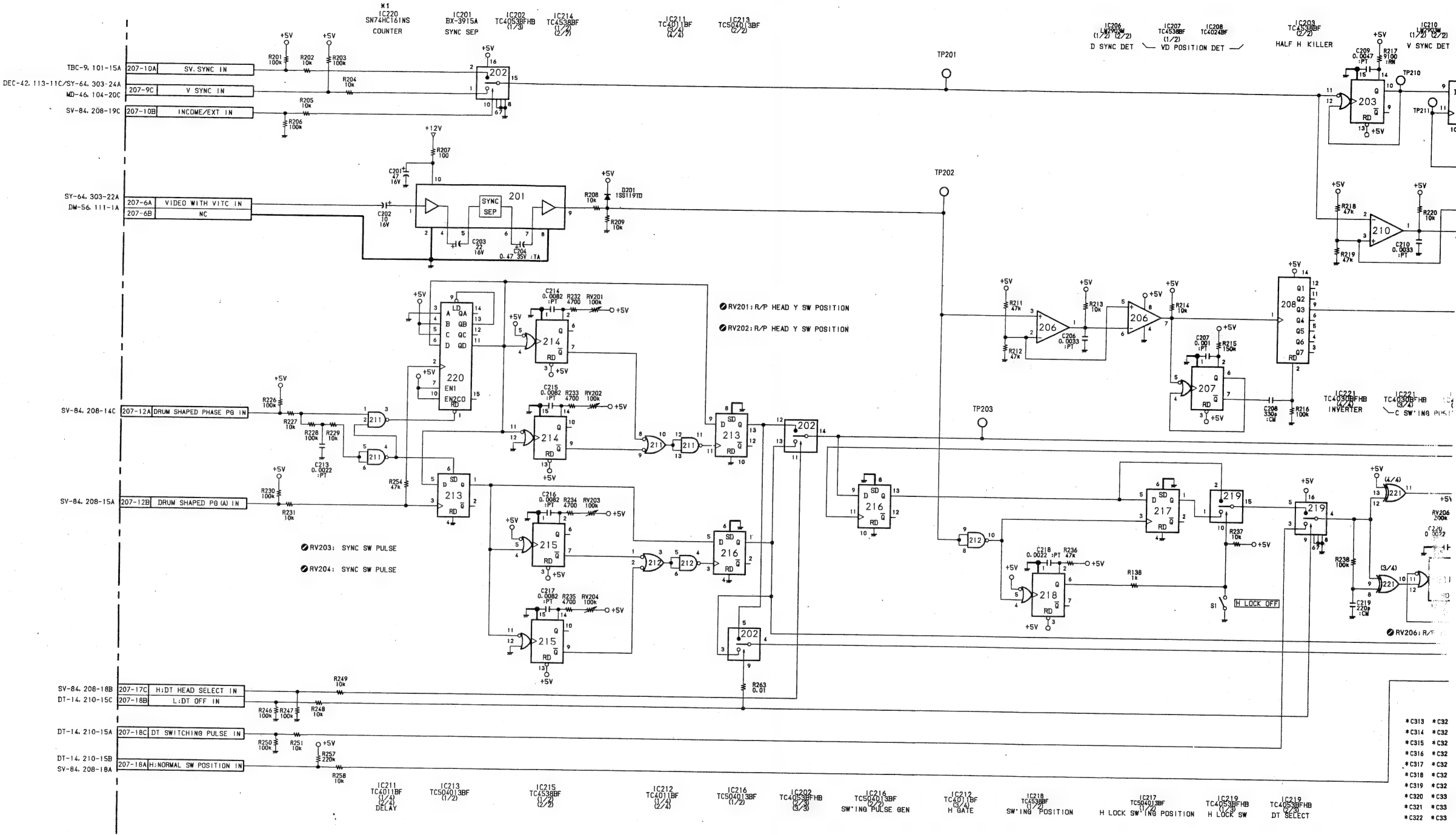


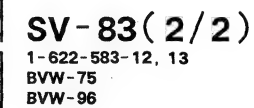
SV-83(1/2)
1-622-583-12, 13
BVW-75
BVW-96

SV-83 (2/2) ; SW PULSE/VD GENERATOR

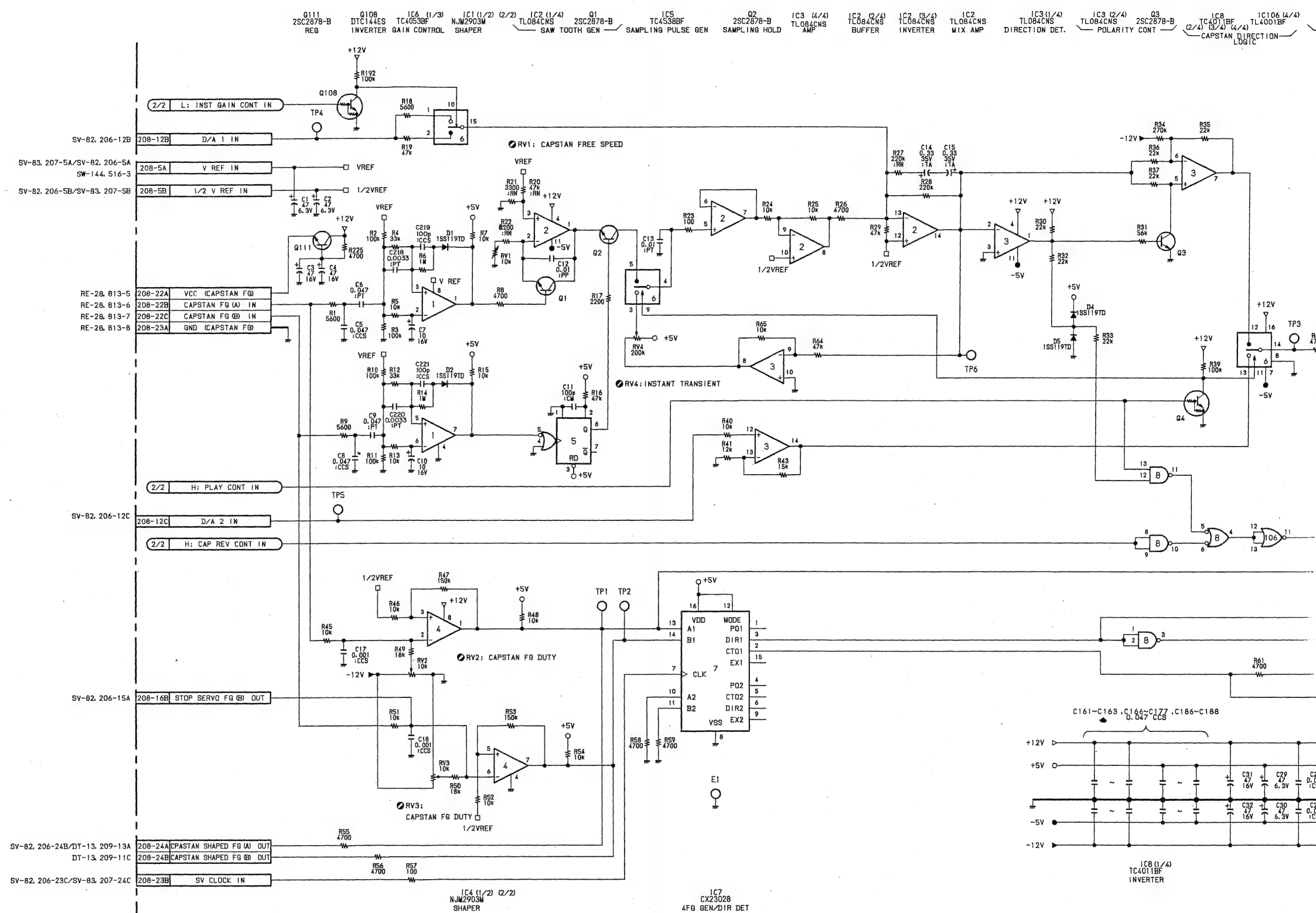
NOTE

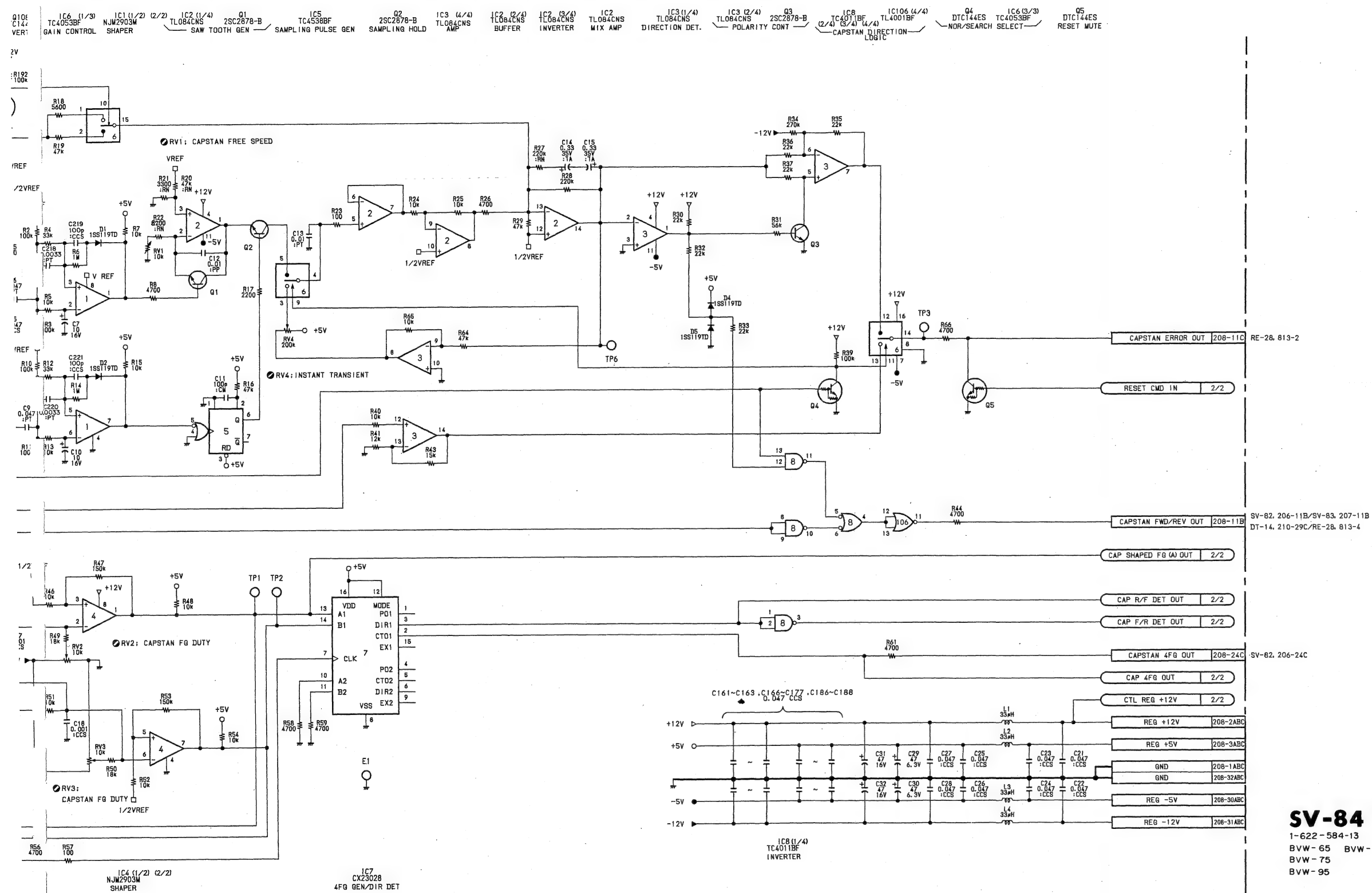
MARK	CHANGE INFORMATION	SERIAL NO.
*1	IC220 TC74HC160F → TC74HC161F	UC; S/N 14822 ~ J; S/N 12029 ~





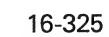
SV-84 (1/2); CAPSTAN SERVO



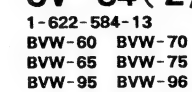
**SV-84 (1/2)**

1-622-584-13
BVW-65 BVW-96
BVW-75
BVW-95


```
(( )); DT F
{ }; REC
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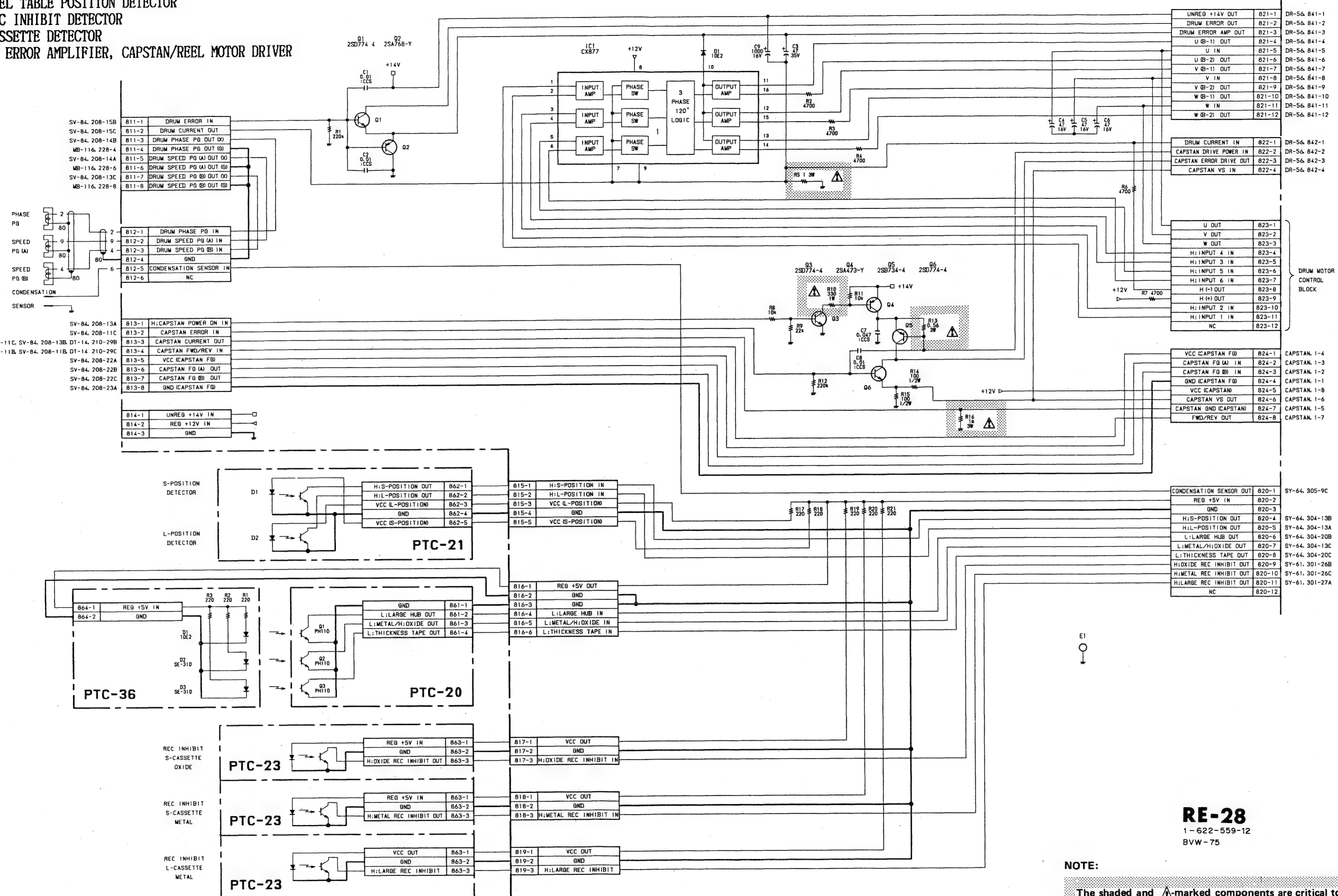


H



16-326

RE-28; DRUM/CAPSTAN MOTOR DRIVER
PTC-20; CASSETTE DETECTOR
PTC-21; REEL TABLE POSITION DETECTOR
PTC-23; REC INHIBIT DETECTOR
PTC-36; CASSETTE DETECTOR
DR-56; DRUM ERROR AMPLIFIER, CAPSTAN/REEL MOTOR DRIVER




RE-28, 8
RE-28, 8
RE-28, 8
RE-28, 8
RE-28, 8
RE-28, 8
RE-28, 8
RE-28, 8
RE-28, 8
RE-28, 82
RE-28, 82
RE-28, 82

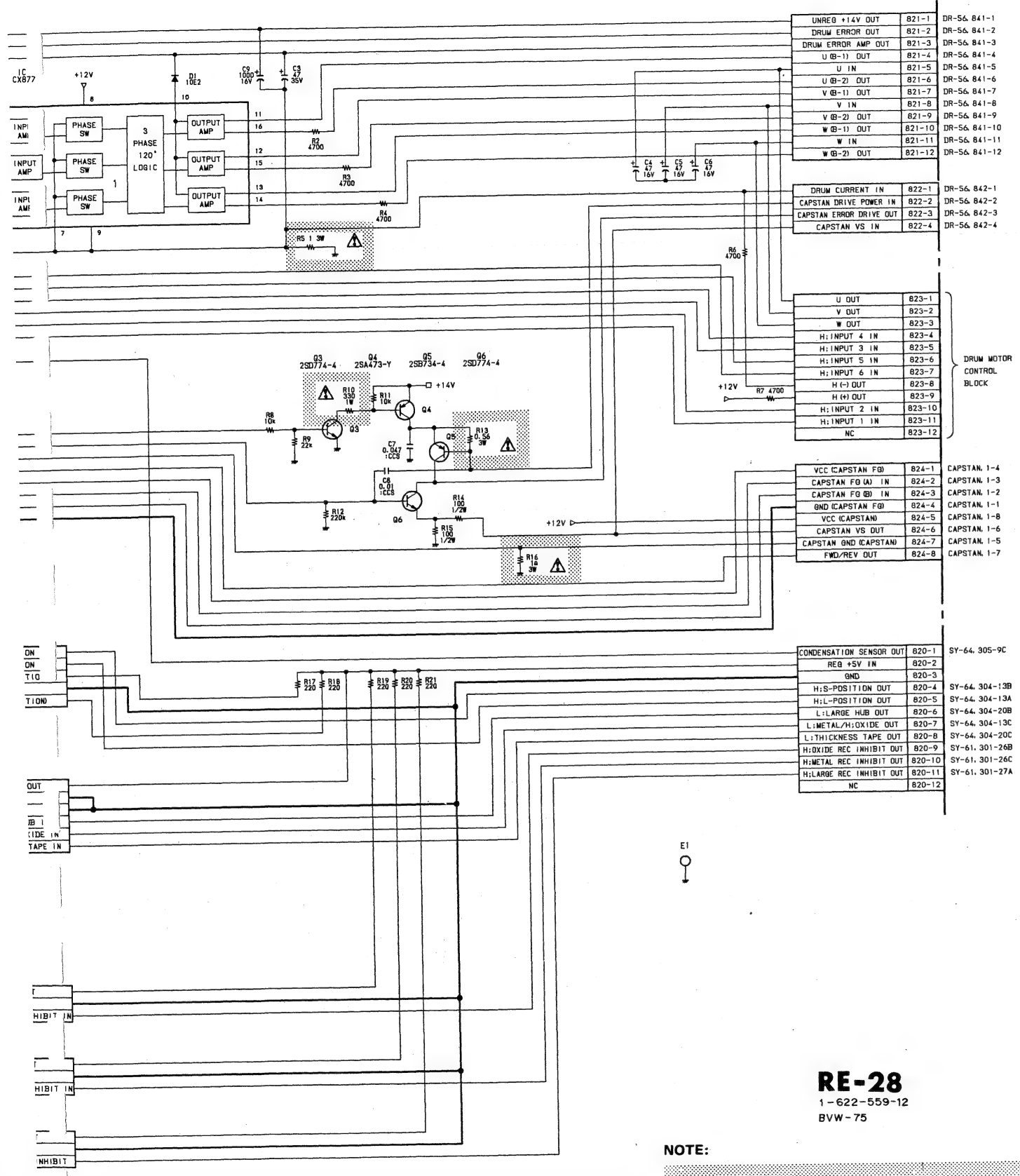
RE-28, 8
RE-28, 8
RE-28, 8
RE-28, 8

E-36, 40
E-36, 50
E-36, 80
E-36, 80
E-36, 80
E-36, 80
E-36, 80
E-36, 80

RE-28
1-622-559-12
BVW-75

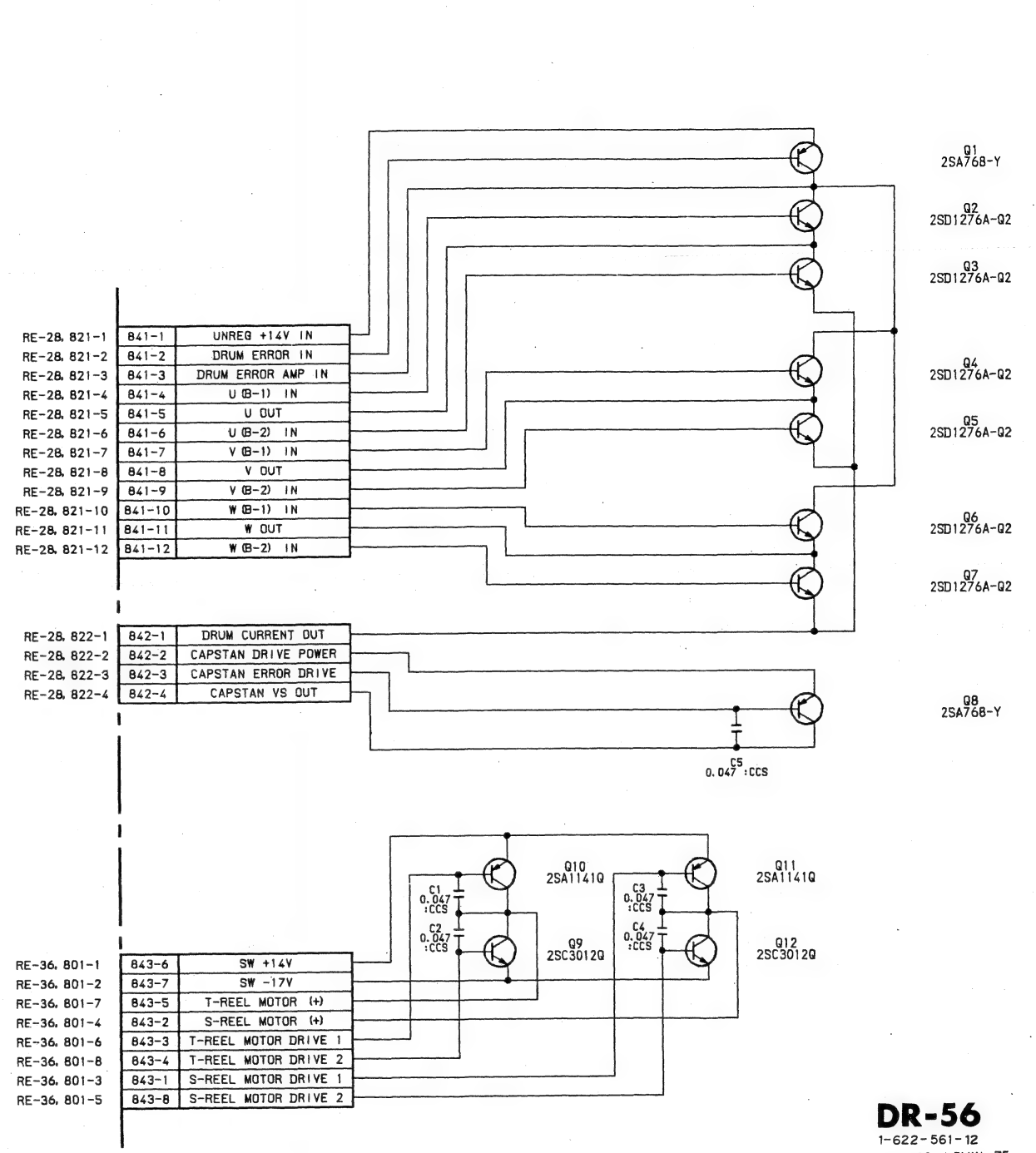
NOTE:

The shaded and -marked components are critical to safety.
Replace only with same components as specified.



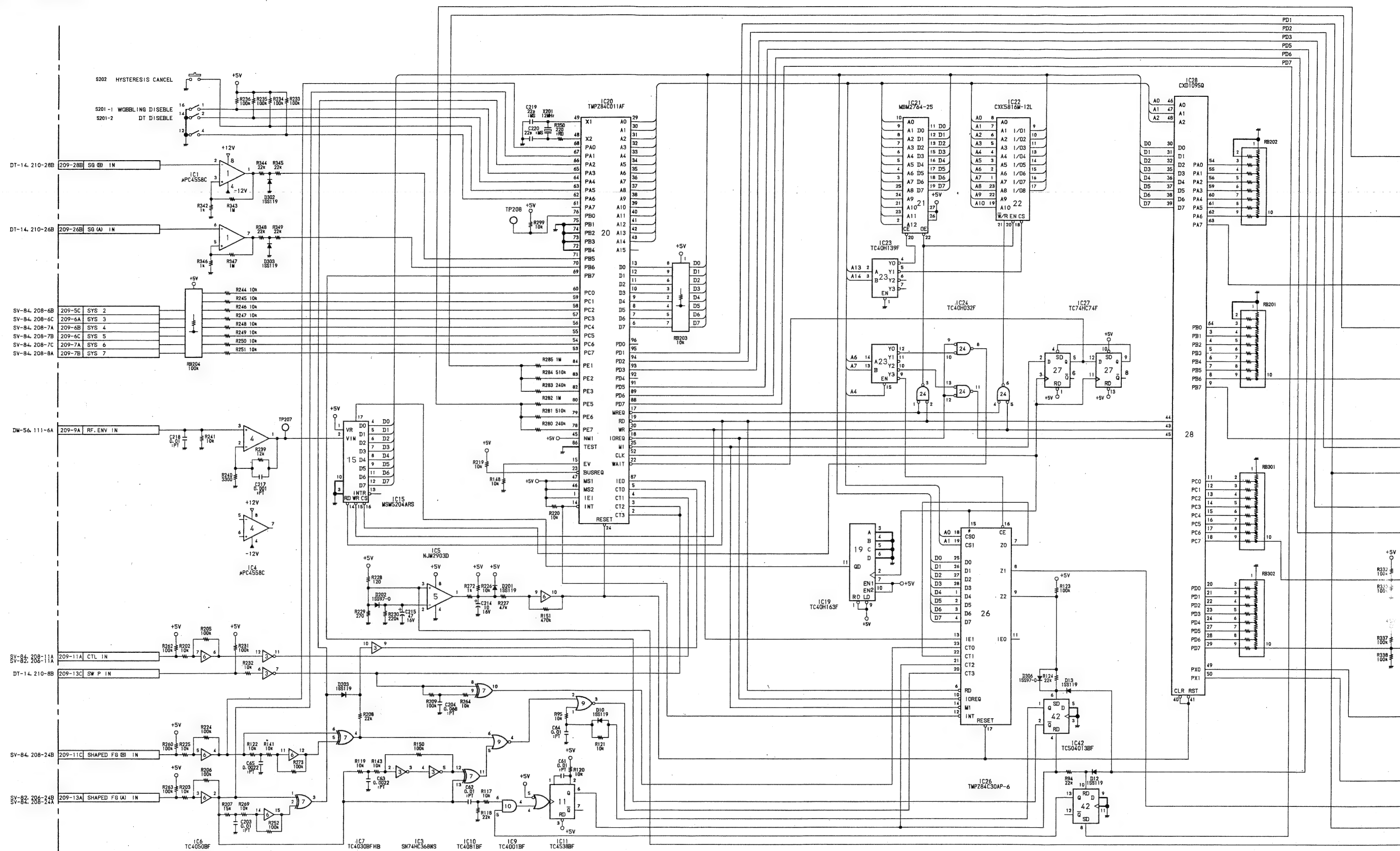
RE-28
1-622-559-12
BVW-75

NOTE:
The shaded and -marked components are critical to safety.
Replace only with same components as specified.



DR-56
1-622-561-12
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

DT-13; DYNAMIC TRACKING



16-344

16-345

A

B

C

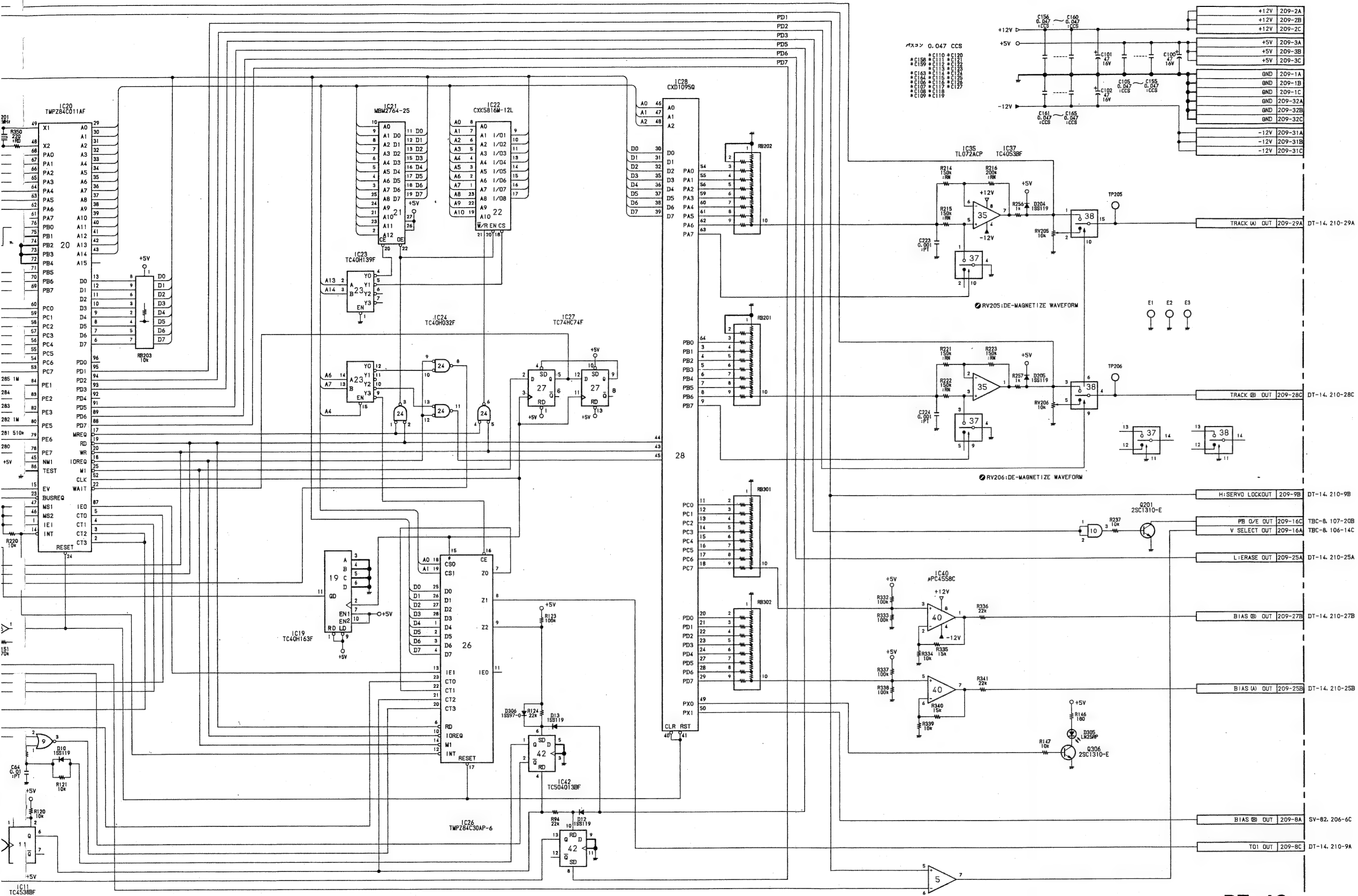
D

E

F

G

H

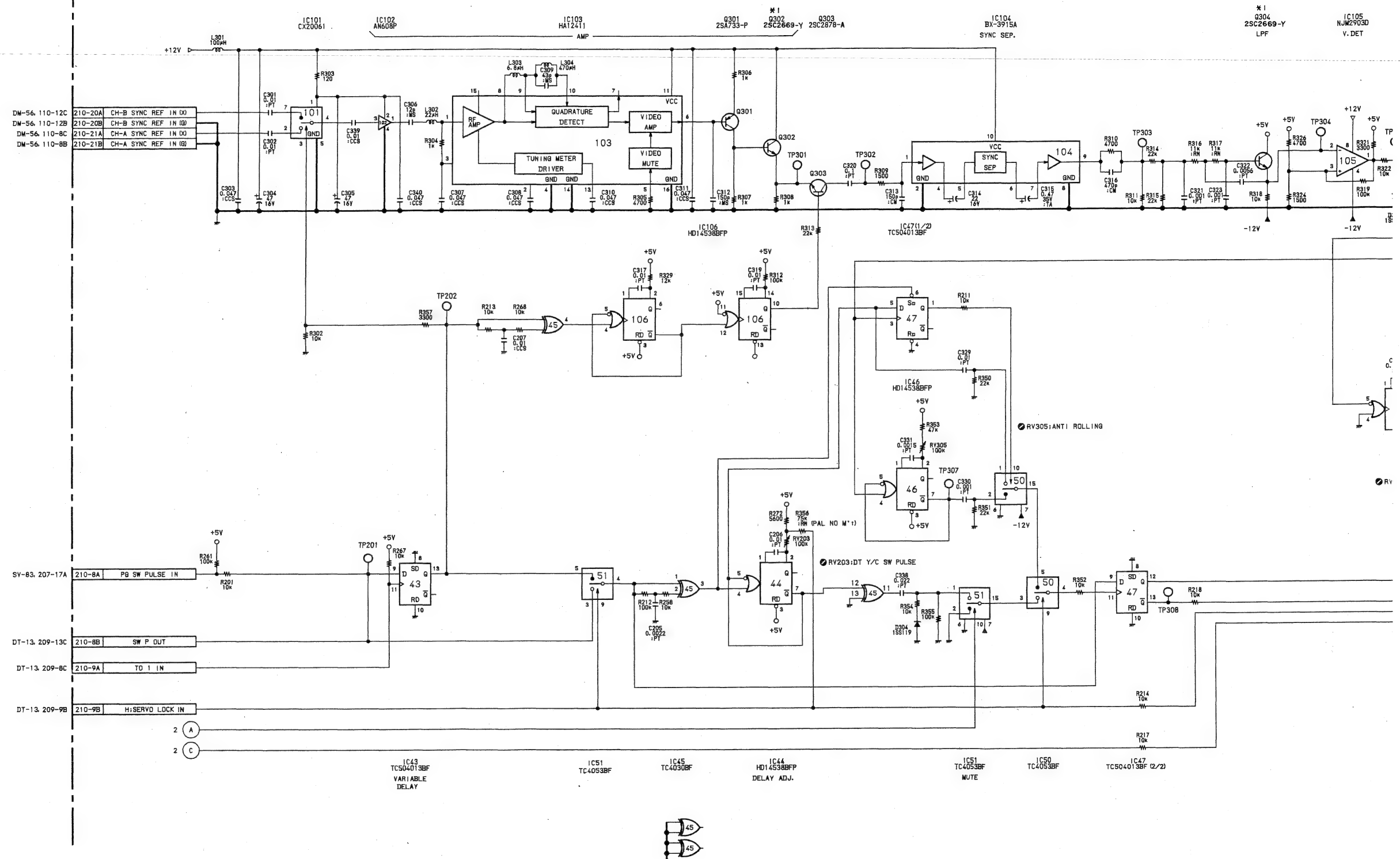


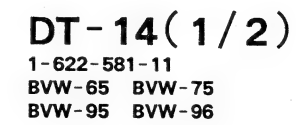
DT-13
1-622-580-12
BVW-65 BVW-75
BVW-95 BVW-96

DT-14 (1/2); DT V GENERATOR

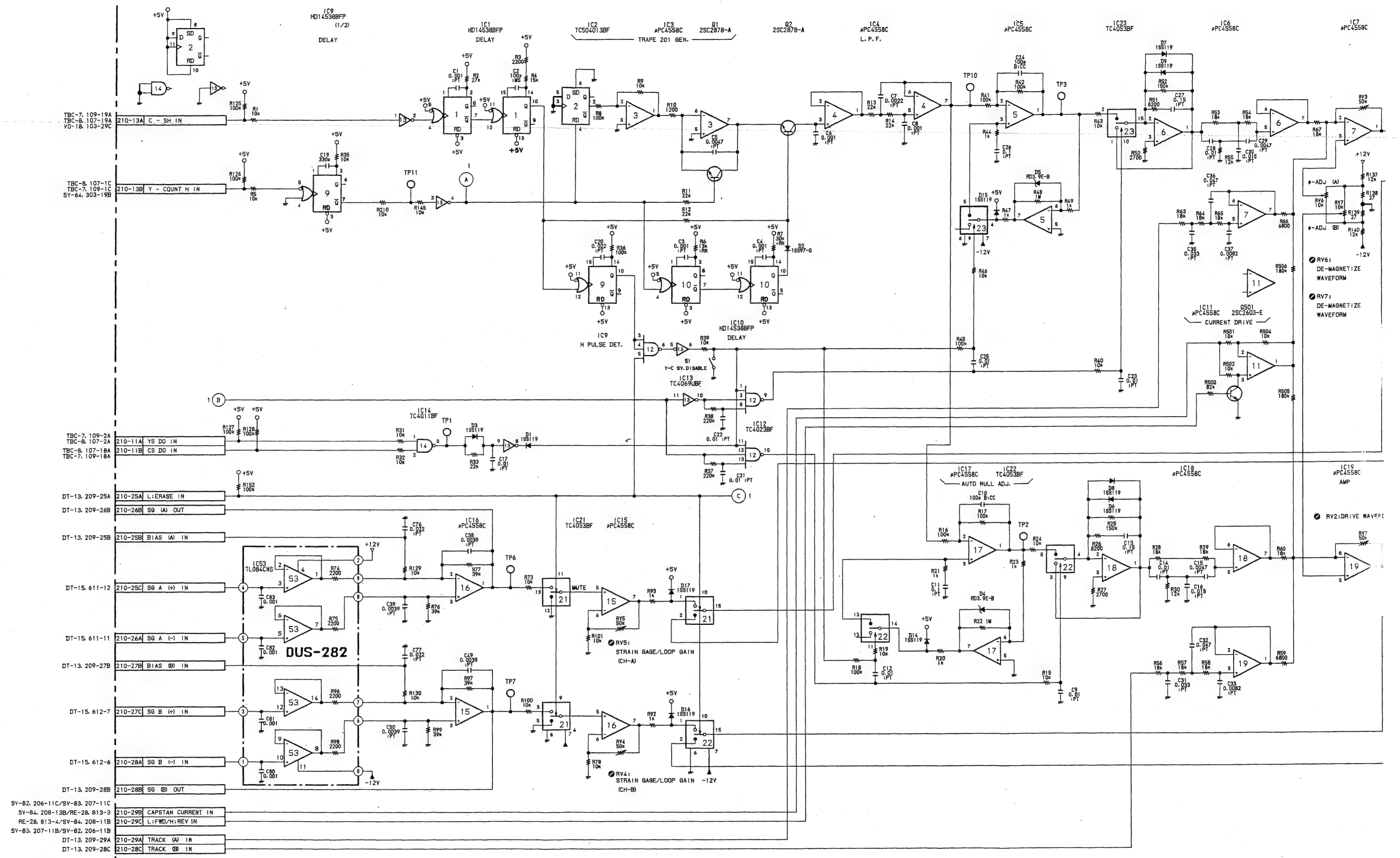
NOTE

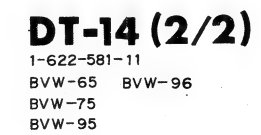
MARK	CHANGE INFORMATION	SERIAL NO.
*1	Q302, Q304 2SC403SP-5 → 2SC2669-Y	UC; S/N 16143 ~ J; S/N 12689 ~





16-357





DT-15 ; POWER DRIVER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	Q7 2SC1762-1→ 2SC3632-K Q8 2SC1762-1→ 2SC3632-K Q13 2SC1762-1→ 2SC3632-K Q14 2SC1762-1→ 2SC3632-K	UC: S/N 13975 ~ J: S/N 11569 ~
*2	IC7, IC8, IC9, IC10 NJM4558M → RC4558P	UC: S/N 14657 ~ J: S/N 11949 ~

DT-14, 210-27A
DT-14, 210-28A
DT-14, 210-27C
DT-14, 210-28C
DT-14, 210-28A
DT-14, 210-25C

611-7 SG B (G) OUT
611-8 SG B (-) OUT
611-9 SG B (+) OUT
611-10 SG A (G) OUT
611-11 SG A (-) OUT
611-12 SG A (+) OUT

DT-14, 210-24B
DT-14, 210-24C
DT-14, 210-24A

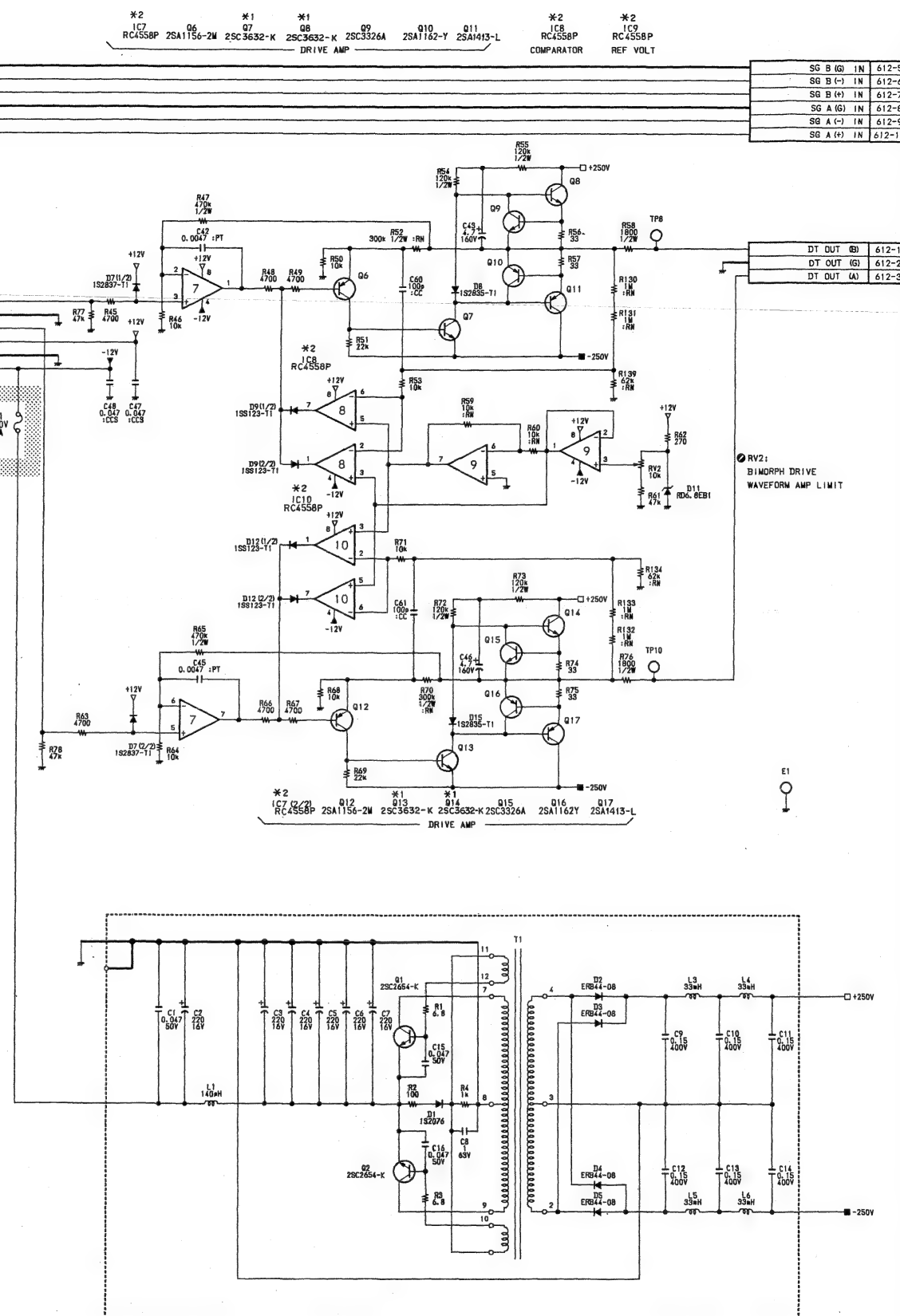
611-1 DT ERROR (B) IN
611-2 DT ERROR (G) IN
611-3 DT ERROR (A) IN
611-4 REG +12V
611-5 GND
611-6 REG -12V

SG B (G) IN 612-5
SG B (-) IN 612-6
SG B (+) IN 612-7
SG A (G) IN 612-8
SG A (-) IN 612-9
SG A (+) IN 612-10


OPEN
SR-26 661-6
SR-26 661-5
OPEN
SR-26 661-4
SR-26 661-3

SR-26 661-2
OPEN
SR-26 661-1

DT-15 DT-15



NOTE:

The shaded and -marked components are critical to safety.
Replace only with same components as specified.

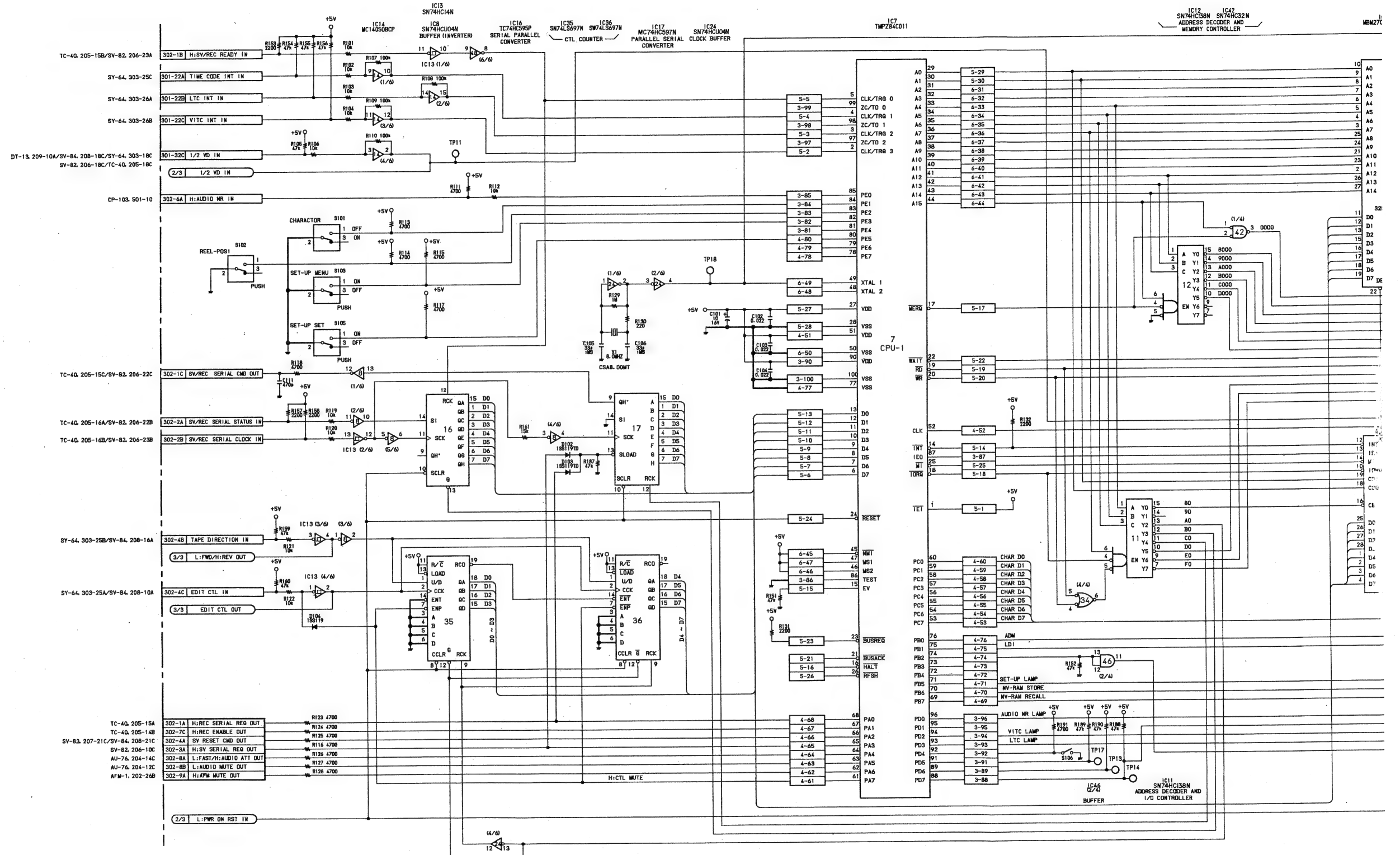
DT-15

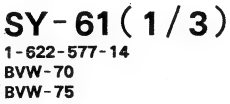
1-622-558-12, 13, 14
BVW-65 BVW-75
BVW-95 BVW-96

SY-61 (1/3) ; SYSTEM CONTROL, CPU-1

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	C112 13pF → 43pF	UC; S/N 13176 ~ J; S/N 11204 ~
*2	C112 43pF → 33pF	UC; S/N 13781 ~ J; S/N 11569 ~
*3	C107 560pF → 270pF	UC; S/N 15800 ~ J; S/N 12469 ~
*4	IC5,23 CXK5816PN-12L → SRM2016C10	UC; S/N 17653 ~ J; S/N 13769 ~

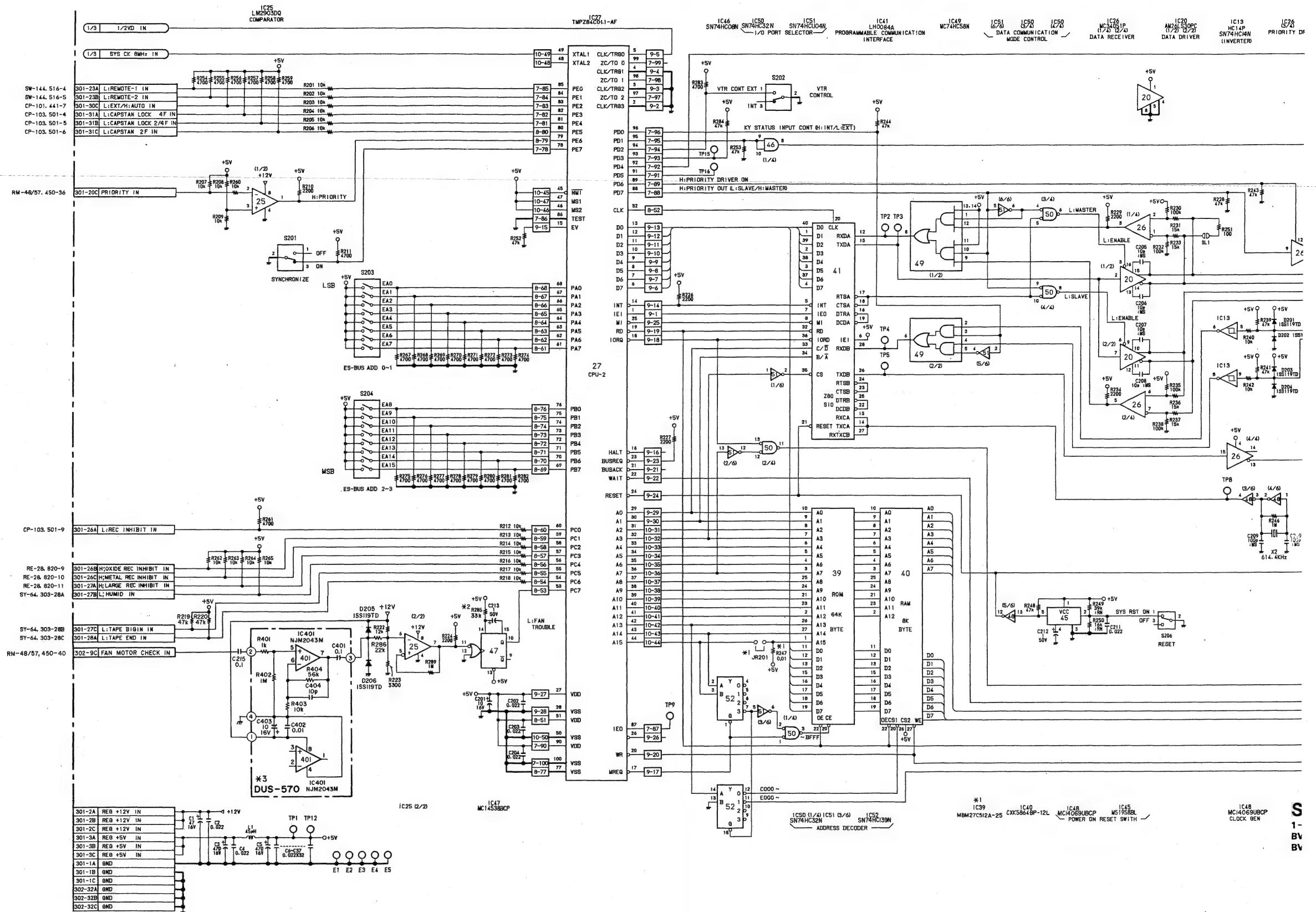


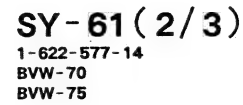


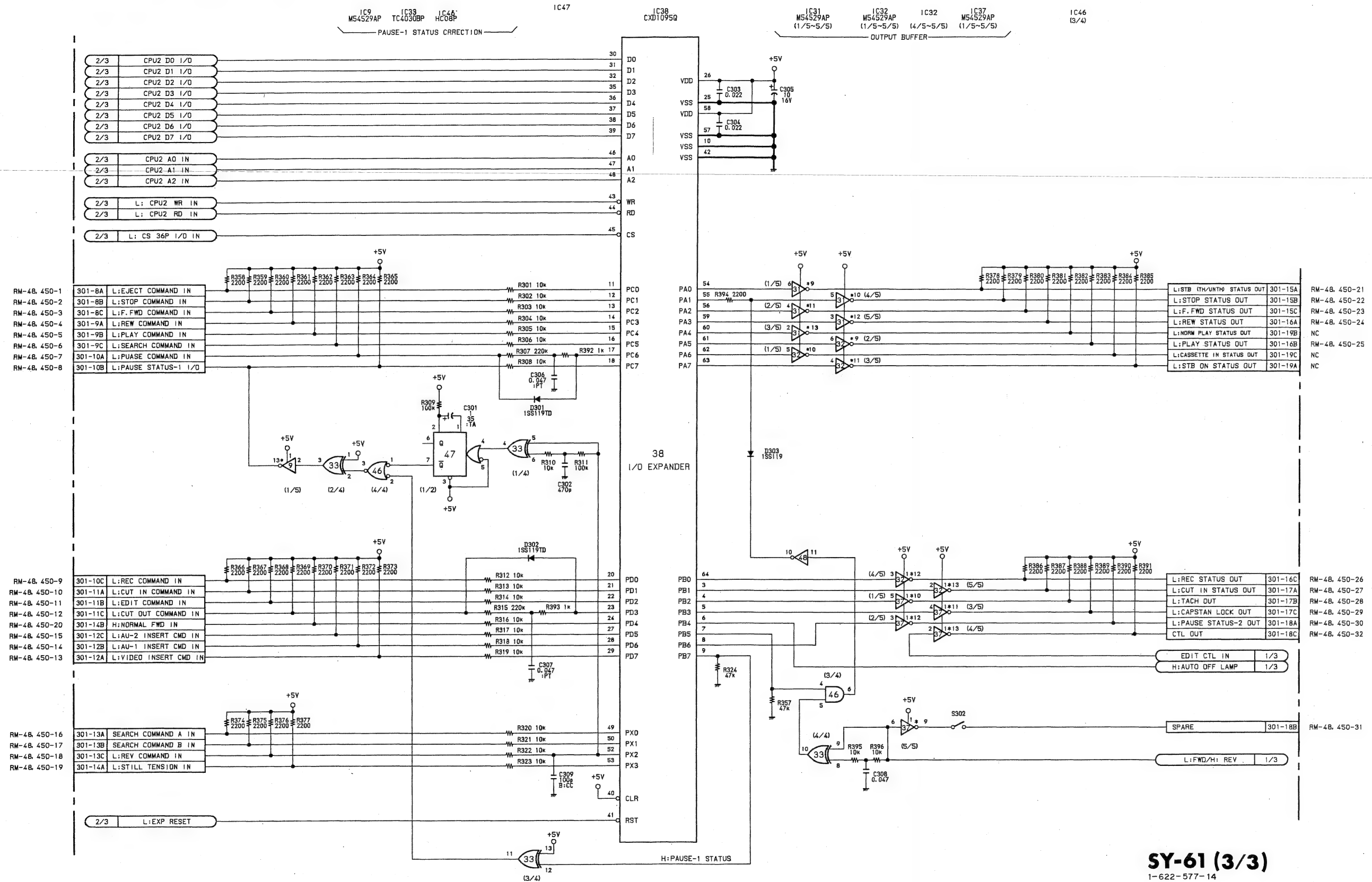
SY-61 (2/3); SYSTEM CONTROL, CPU-2, SERIAL INTERFACE
DUS-570; FAN MOTOR ERROR DETECTOR

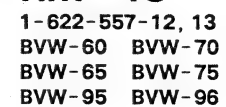
NOTE


MARK	CHANGE INFORMATION	SERIAL NO. NO.
*1	IC39 MBM27C512A-25 ↓ MBM27C512A-25 JR201 ADDED R247 0.01 DELETED	UC; S/N 13176 ~ J; S/N 11204 ~
*2	CHANGED R285 15k → 33k	UC; S/N 15894 ~ J; S/N 12589 ~
*3	DUS-570 ADDED	UC; S/N 18395 ~ J; S/N 14008 ~





SY-61 (3/3); SYSTEM CONTROL, PARALEL INTERFACE
RM-48; REMOTE CONNECTOR

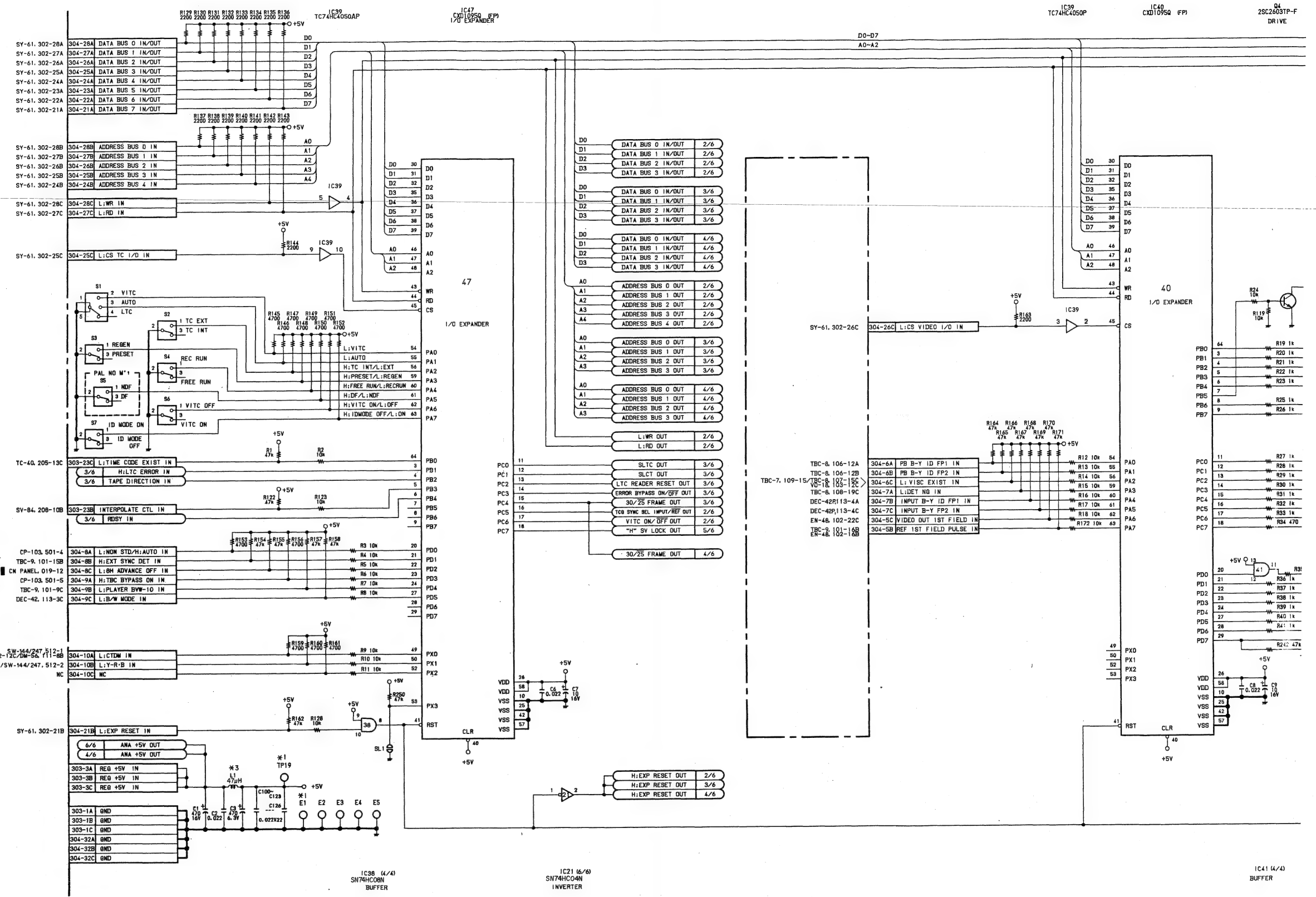


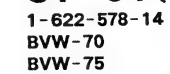
The shaded and -marked components are critical to safety.
Replace only with same components as specified.

SY-64 (1/6) ; I/O EXPANDER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	DELETED E1, TP1, TP2, TP3, TP4 TP5, TP19	UC: S/N 13410 ~ J: S/N 11403 ~
*2	C415 ADDED C4 220/25V → 100/16V	UC: S/N 16143 ~ J: S/N 12689 ~
*3	L1 45μH → 47μH	UC: S/N 17118 ~ J: S/N 13389 ~

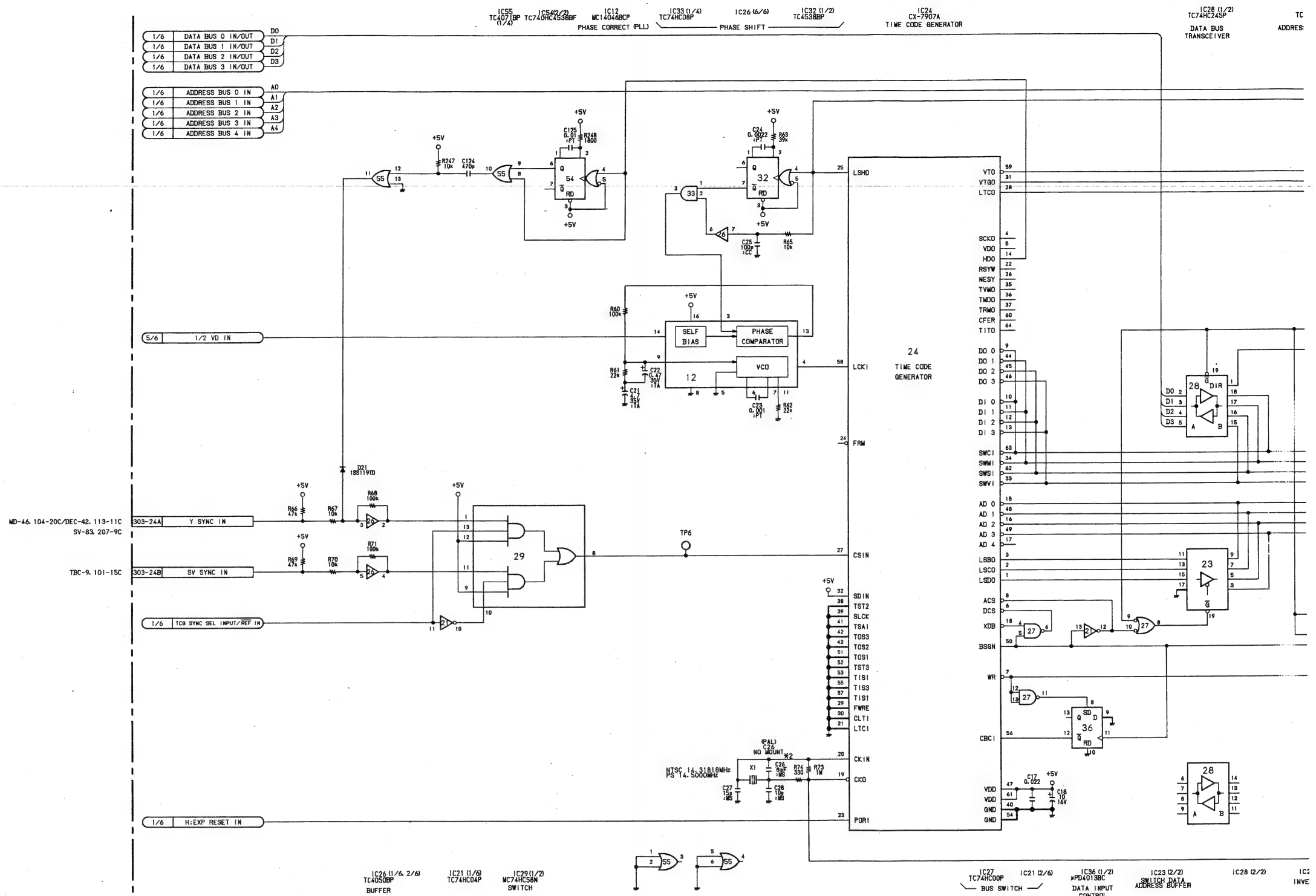


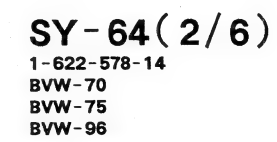


SY-64 (2/6) ; LTC/VITC GENERATOR

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	DELETED TP7, TP8	UC; S/N 13410 ~ J; S/N 11403 ~
*2	C26 8.2pF → 8pF JR2 → R412 0.01	UC; S/N 15800 ~ J; S/N 12539 ~
*3	IC22 CXK5816PN-12L → SRM2016C10	UC; S/N 17653 ~ J; S/N 13769 ~

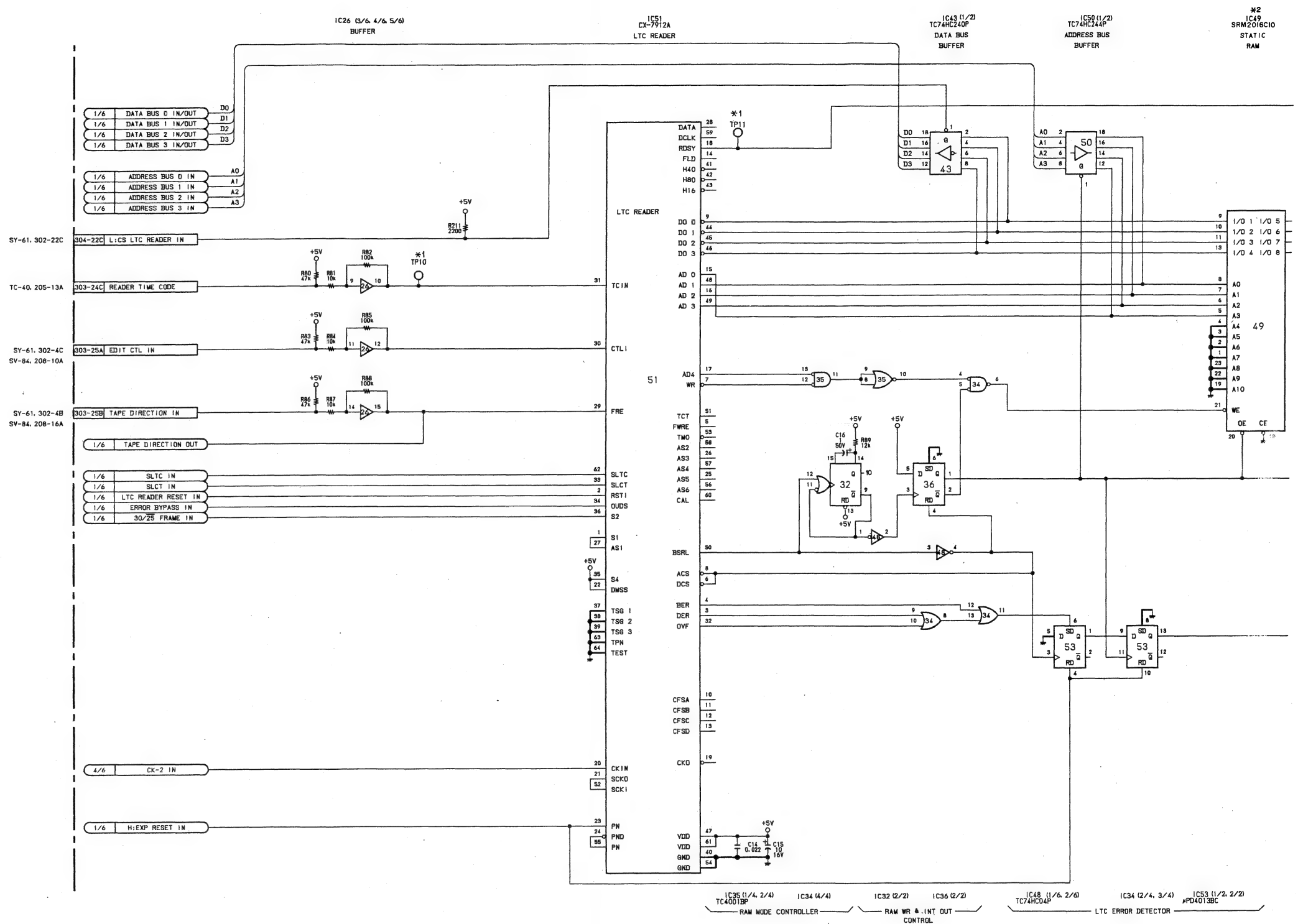


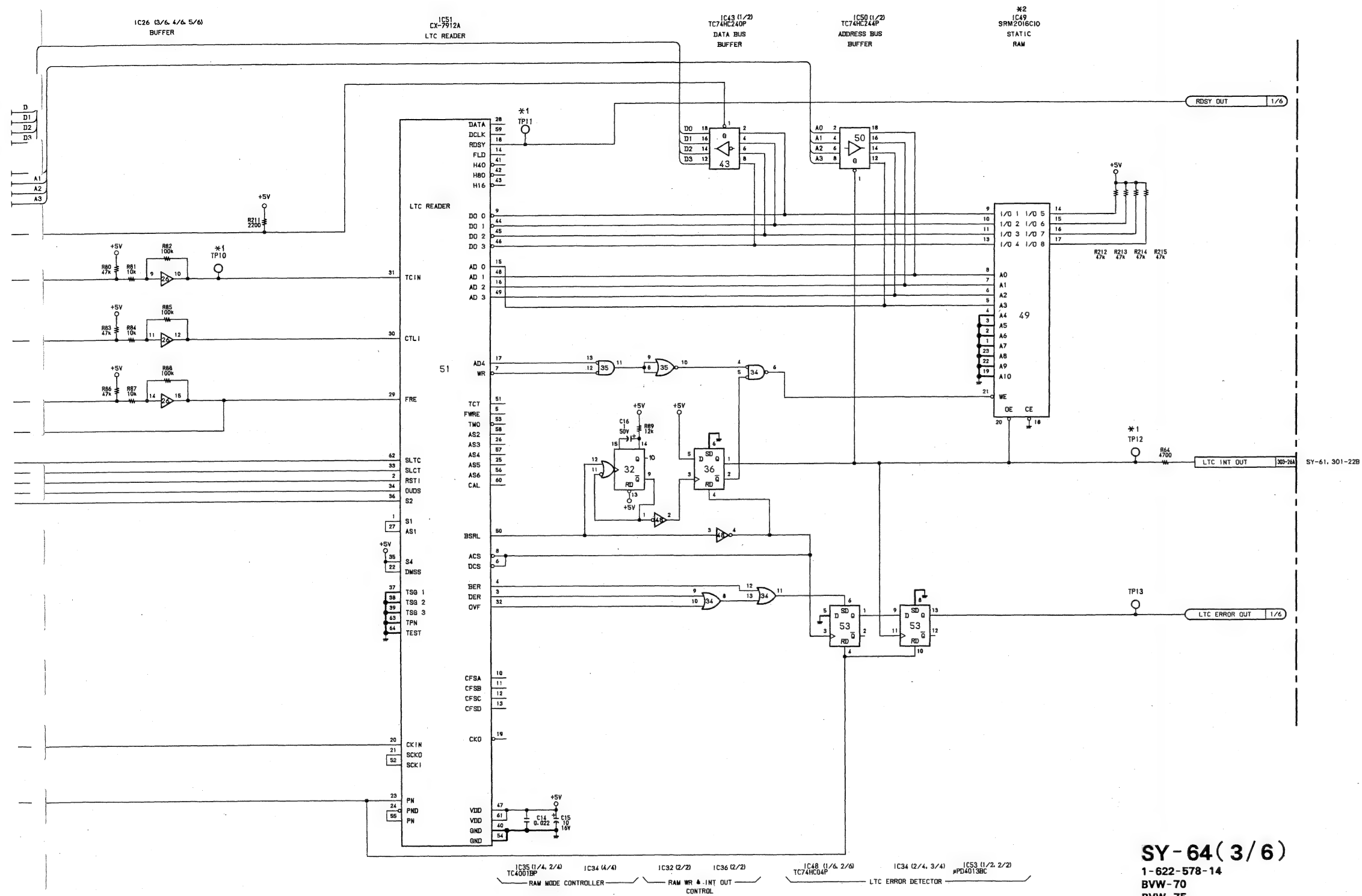


SY-64 (3/6) ; LTC READER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	DELETED TP10, TP11, TP12	UC; S/N 13410 ~ J; S/N 11403 ~
*2	IC49 CXK5816PN-12L → SRM2016C10	UC; S/N 17653 ~ J; S/N 13769 ~





SY-64 (3/6)

1-622-578-14

BVW-70

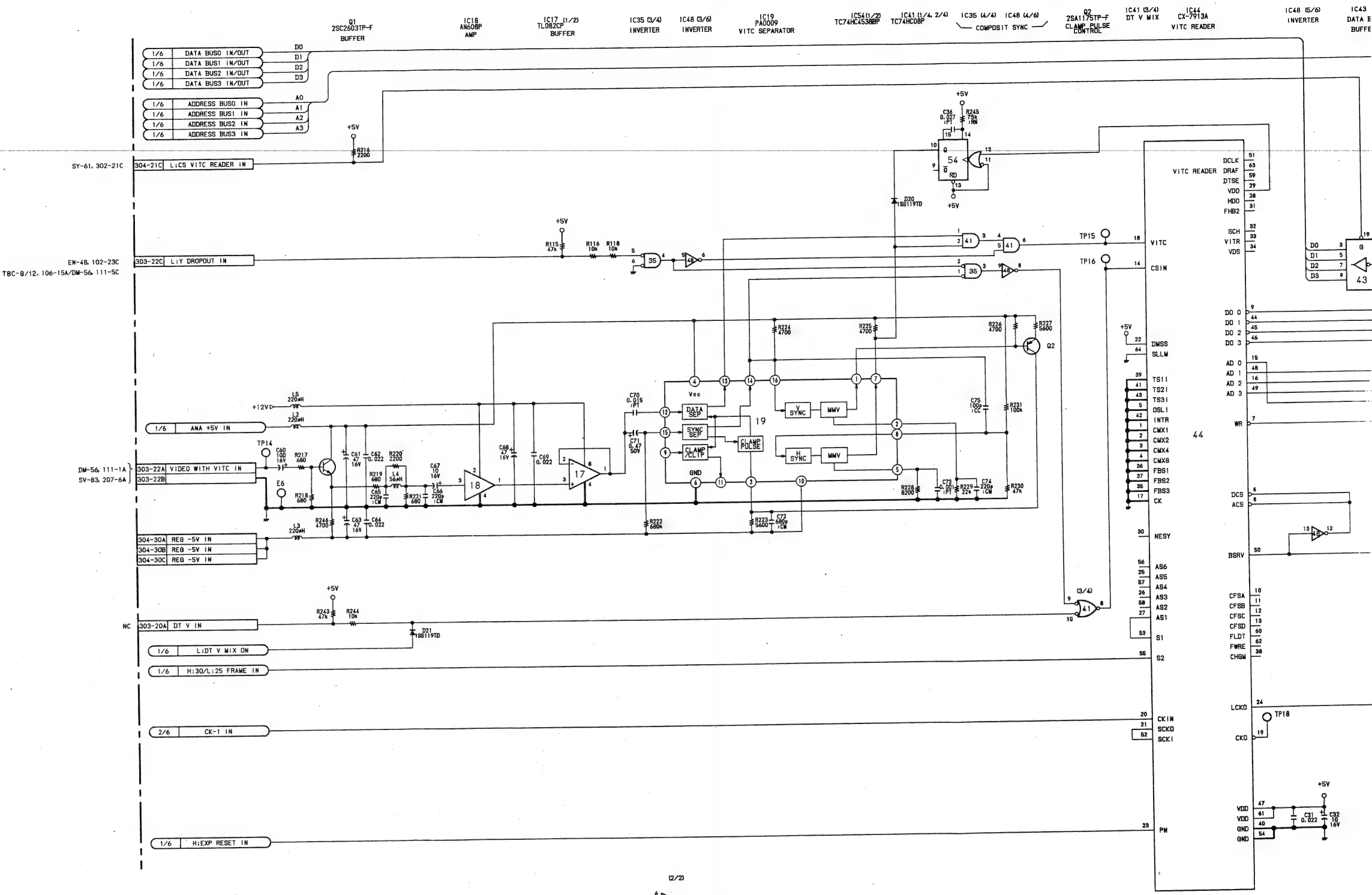
BVW-75

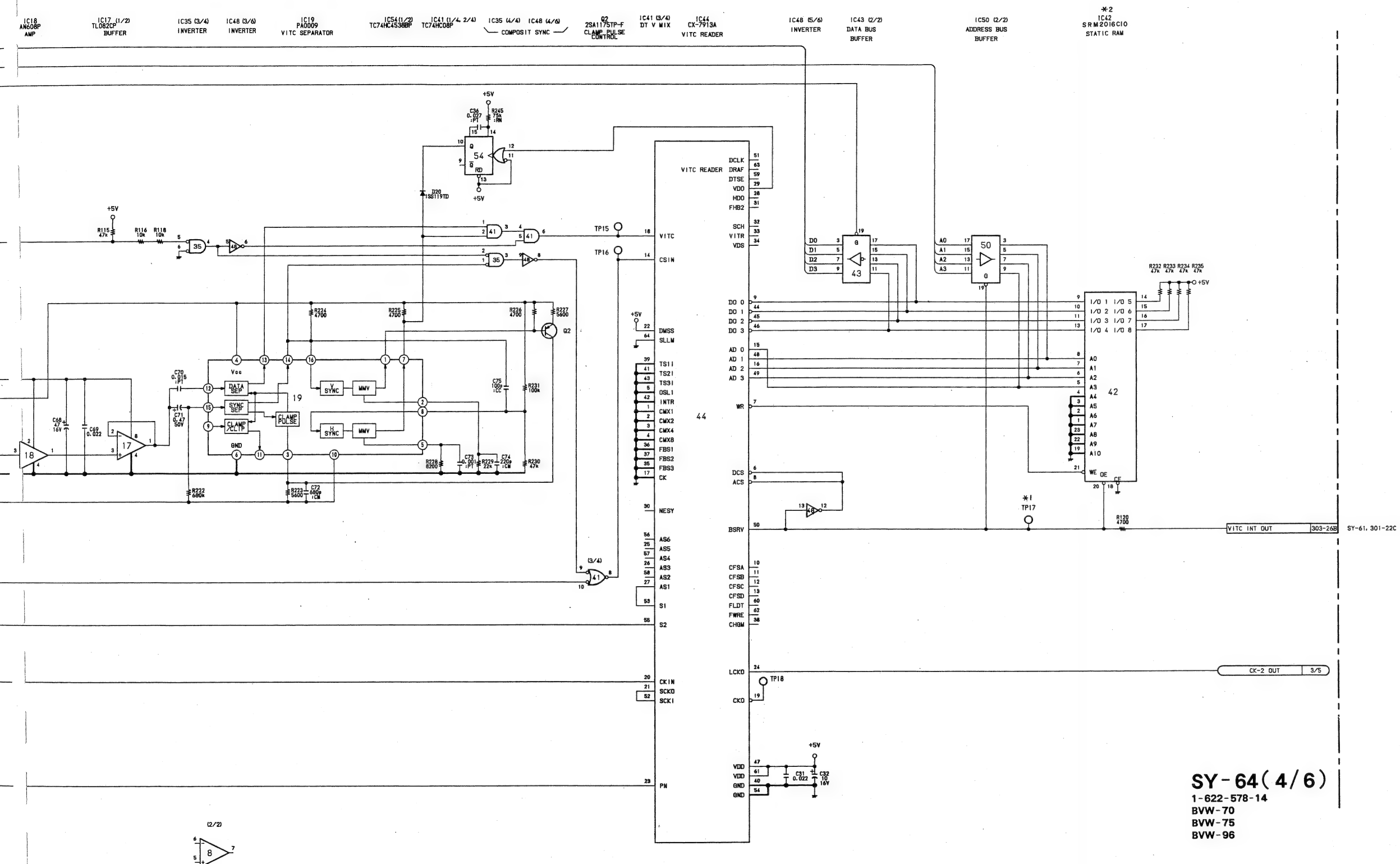
BVW-96

SY-64 (4/6) ; VITC READER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	TP17 DELETED	UC: S/N 13410 ~ J: S/N 11403 ~
*2	IC42 CXX5816PN-12L → SRM2016C10	UC: S/N 17653 ~ J: S/N 13769 ~

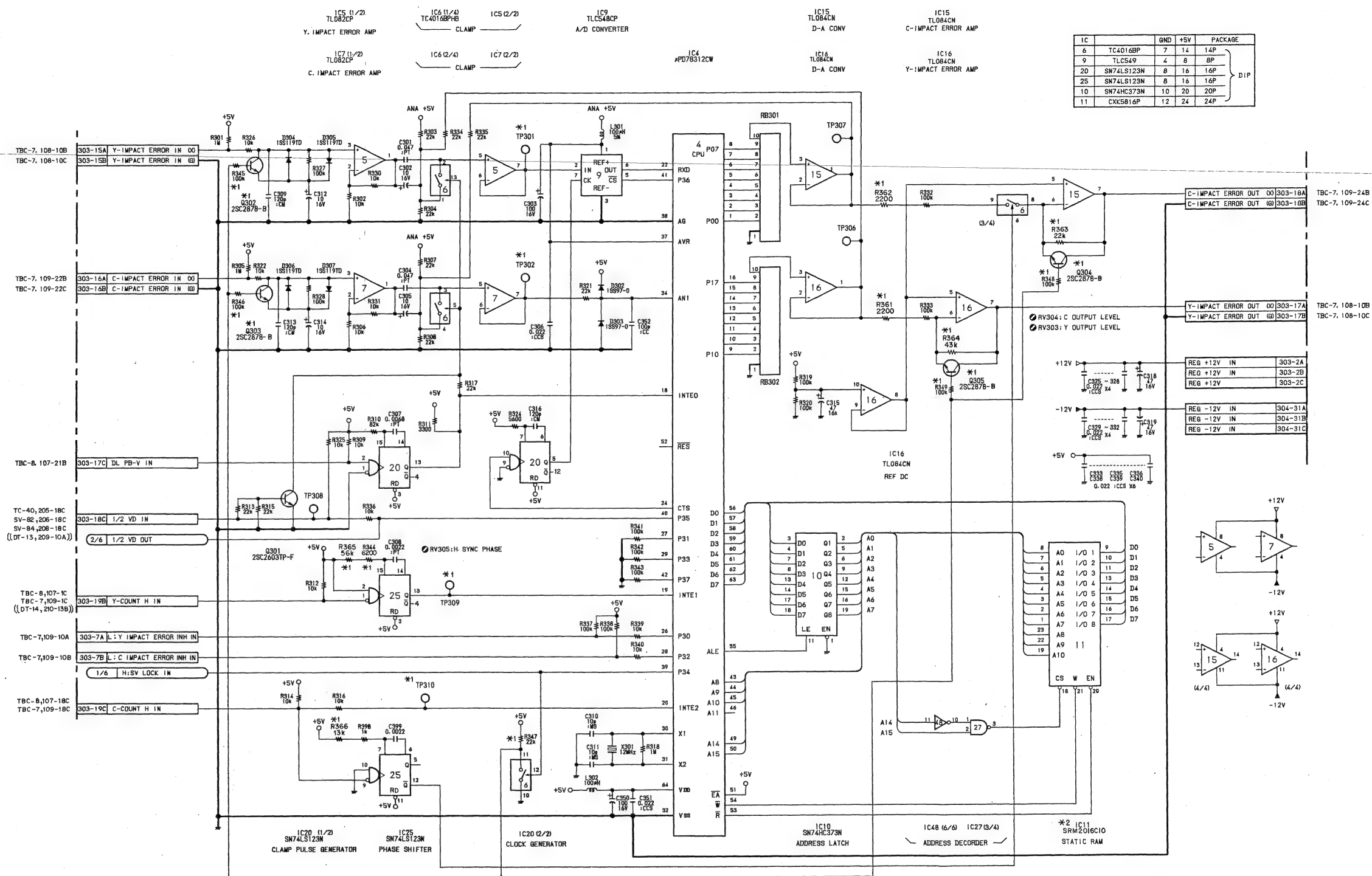




SY-64 (5/6); TIME BASE IMPACT ERROR CORRECTOR
SY-64 (6/6); SENSOR AMPLIFIER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R344 1k → 6200 RV303 → R364 43k RV304 → R363 22k RV305 → R365 56k RV399 → R366 13k S302 → R362 2200 S301 → R361 2200 DELETED Q302, 303, 304, 305 R345, 346, 347, 348, 349 TP301, 302, 309, 310	UC; S/N 13411 ~ J; S/N 11404 ~
*2	IC11 CXK5816PN-12L → SRM2016C10	UC; S/N 17653 ~ J; S/N 13769 ~



SY-64 (5/6)

1-622-578-14
BVW-70
BVW-75
BVW-96

NOTE

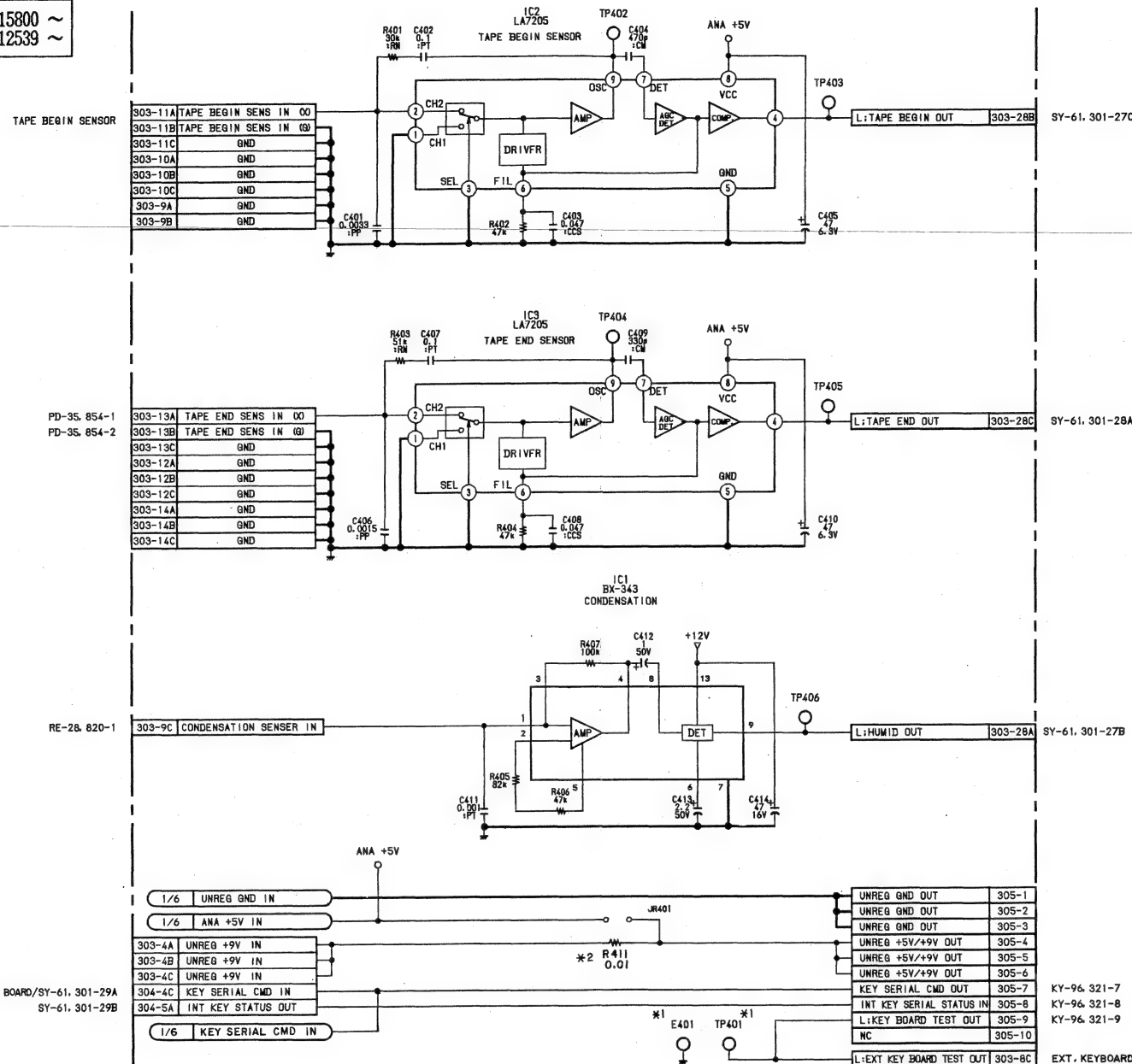
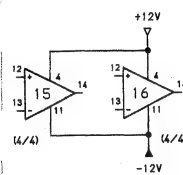
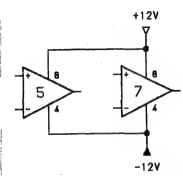
MARK	CHANGE INFORMATION	SERIAL NO.
*1	DELETED E401, TP401	UC; S/N 13411 ~ J; S/N 11404 ~
*2	JR402 → R411 0.01	UC; S/N 15800 ~ J; S/N 12539 ~

D	+5V	PACKAGE
1	14P	DIP
8	8P	
16	16P	
20	20P	
2	24	24P

C-IMPACT ERROR OUT (00) 303-18A	TBC-7, 109-24B
C-IMPACT ERROR OUT (00) 303-18B	TBC-7, 109-24C

Y-IMPACT ERROR OUT (00) 303-17A	TBC-7, 108-10B
Y-IMPACT ERROR OUT (00) 303-17B	TBC-7, 108-10C

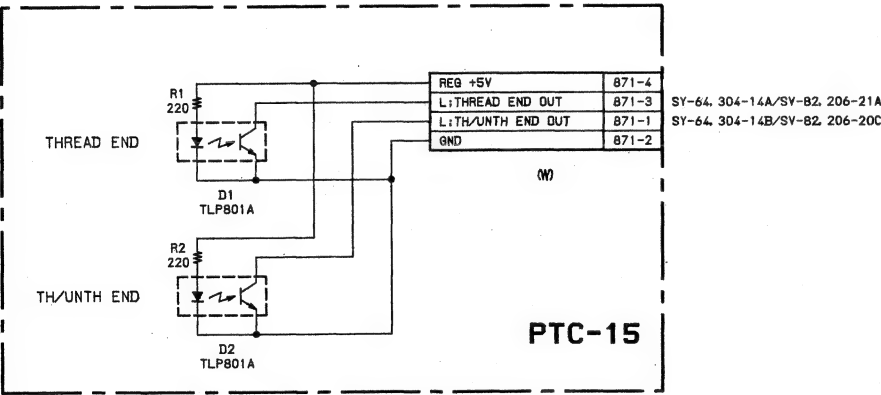
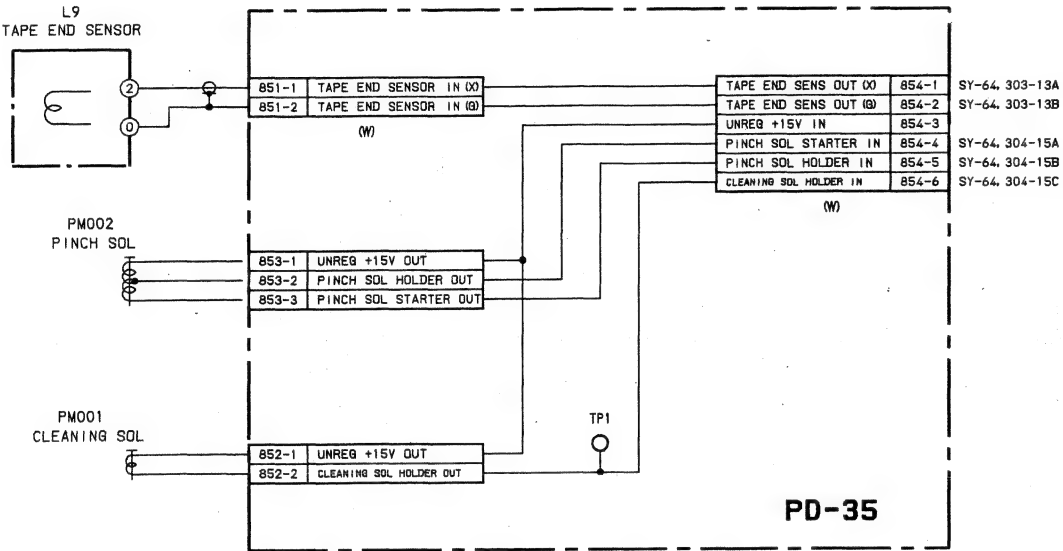
REG +12V IN	303-2A
REG +12V IN	303-2B
REG +12V IN	303-2C
REG -12V IN	304-31A
REG -12V IN	304-31B
REG -12V IN	304-31C



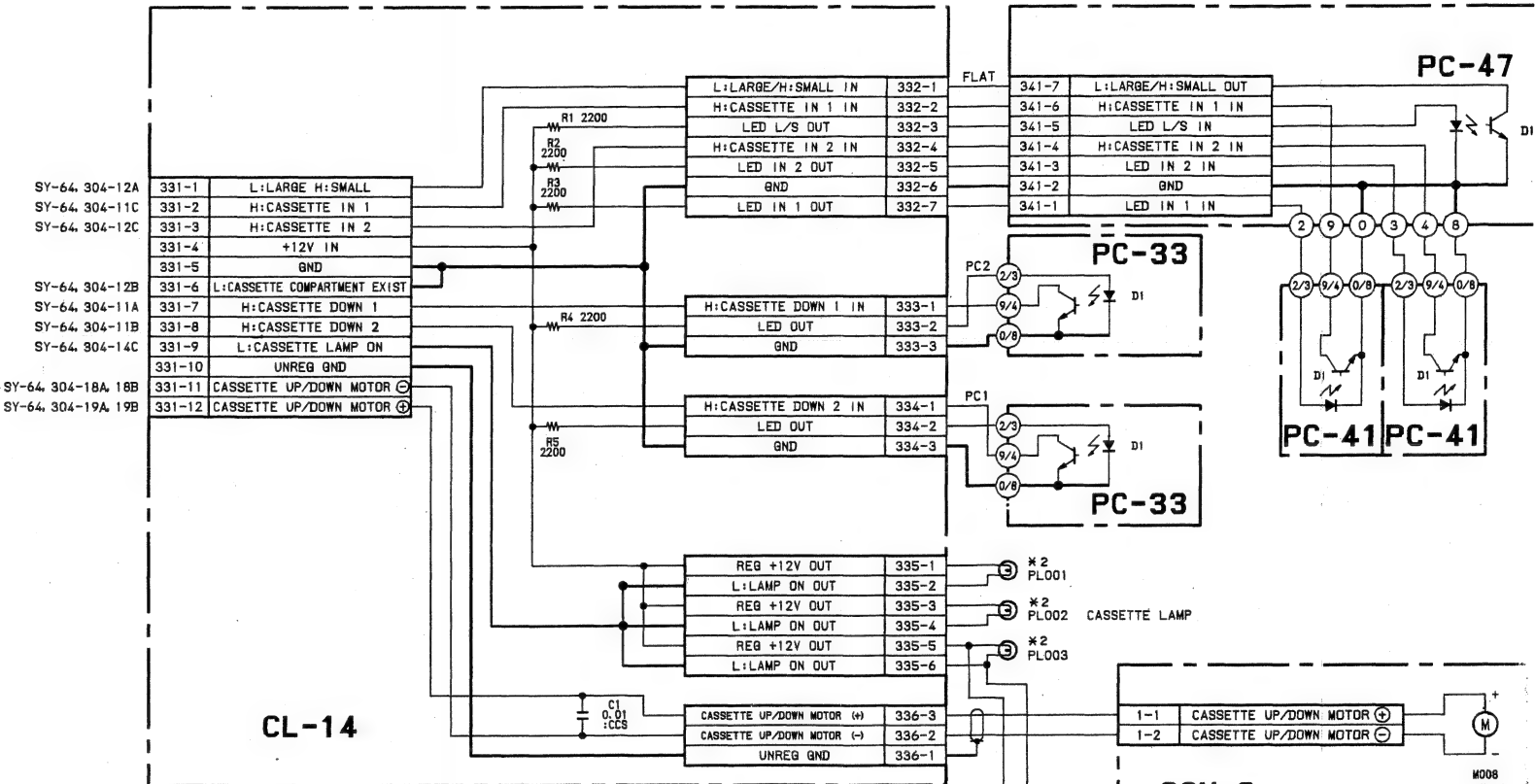
PD-35 ; PINCH/CLEANING SOLENOID
PTC-15 ; THREAD/UNTHREAD END SENSOR
CL-14 ; CASSETTE-UP COMPARTMENT
CL-24 ; CASSETTE-UP COMPARTMENT LED
PC-33 ; CASSETTE DOWN DETECTOR
PC-41 ; CASSETTE IN DETECTOR
PC-47 ; LARGE/SMALL CASSETTE DETECTOR
CCM-2 ; UP/DOWN MOTOR
HC-11 ; HOURS METER

NOTE

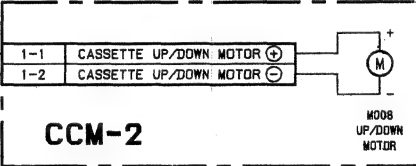
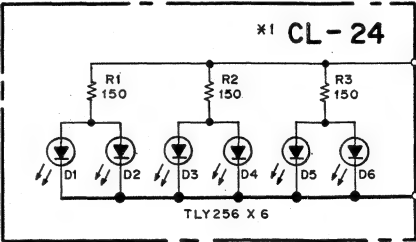
MARK	CHANGE INFORMATION	SERIAL NO.
*1	CL-24 BOARD ADDED	UC; S/N 15552 ~ J; S/N 12319 ~



PD-35
1-622-596-11
BVW-60 BVW-70
BVW-65 BVW-75
BVW-95 BVW-96

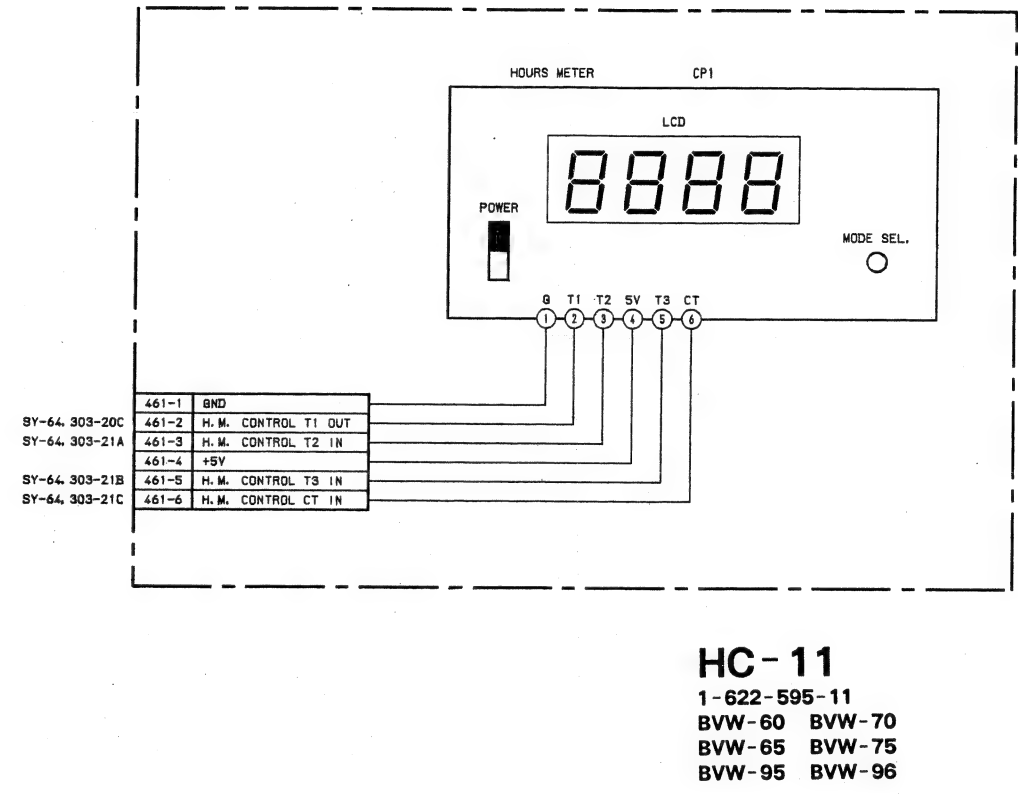
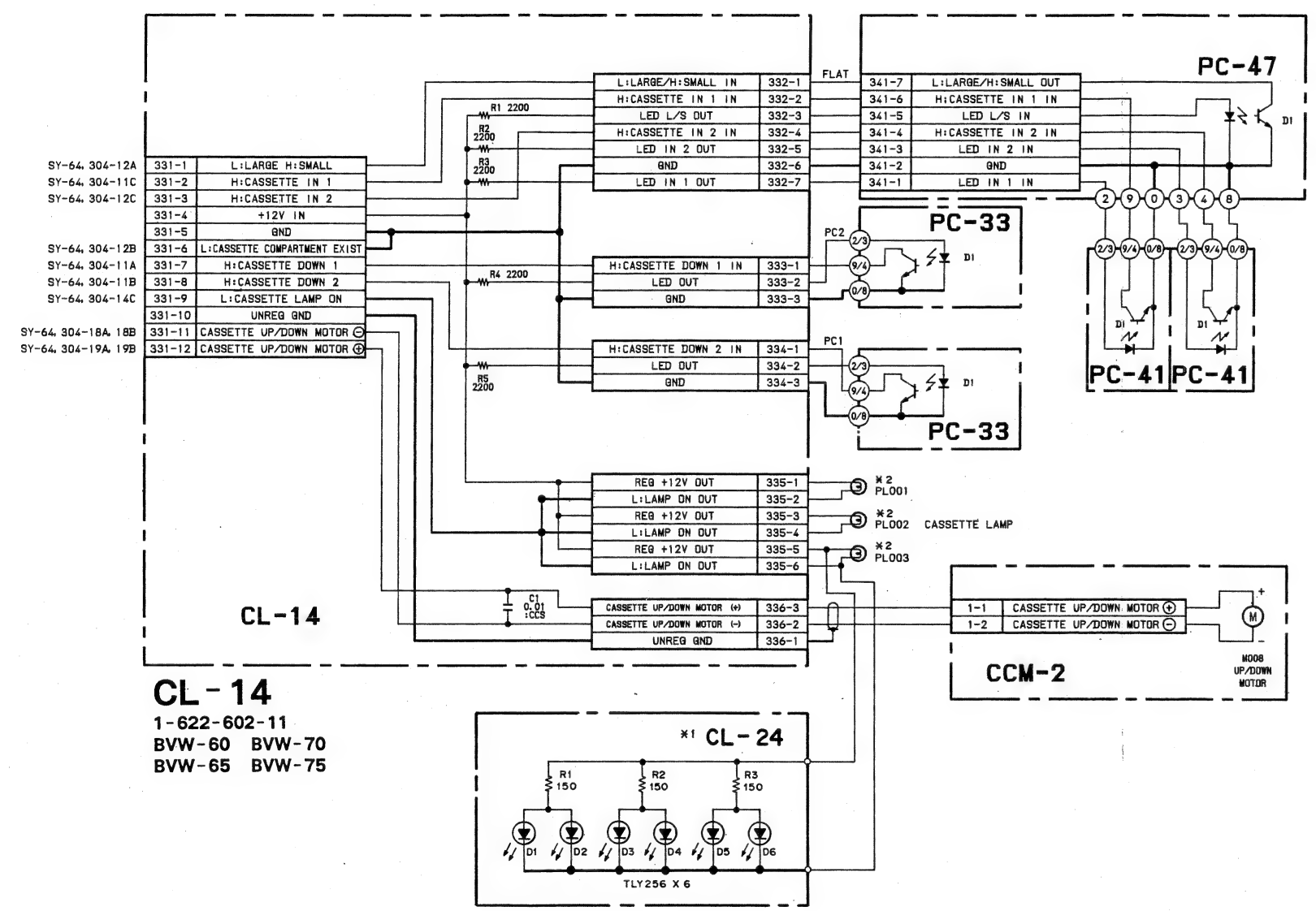


CL-14
1-622-602-11
BVW-60 BVW-70
BVW-65 BVW-75



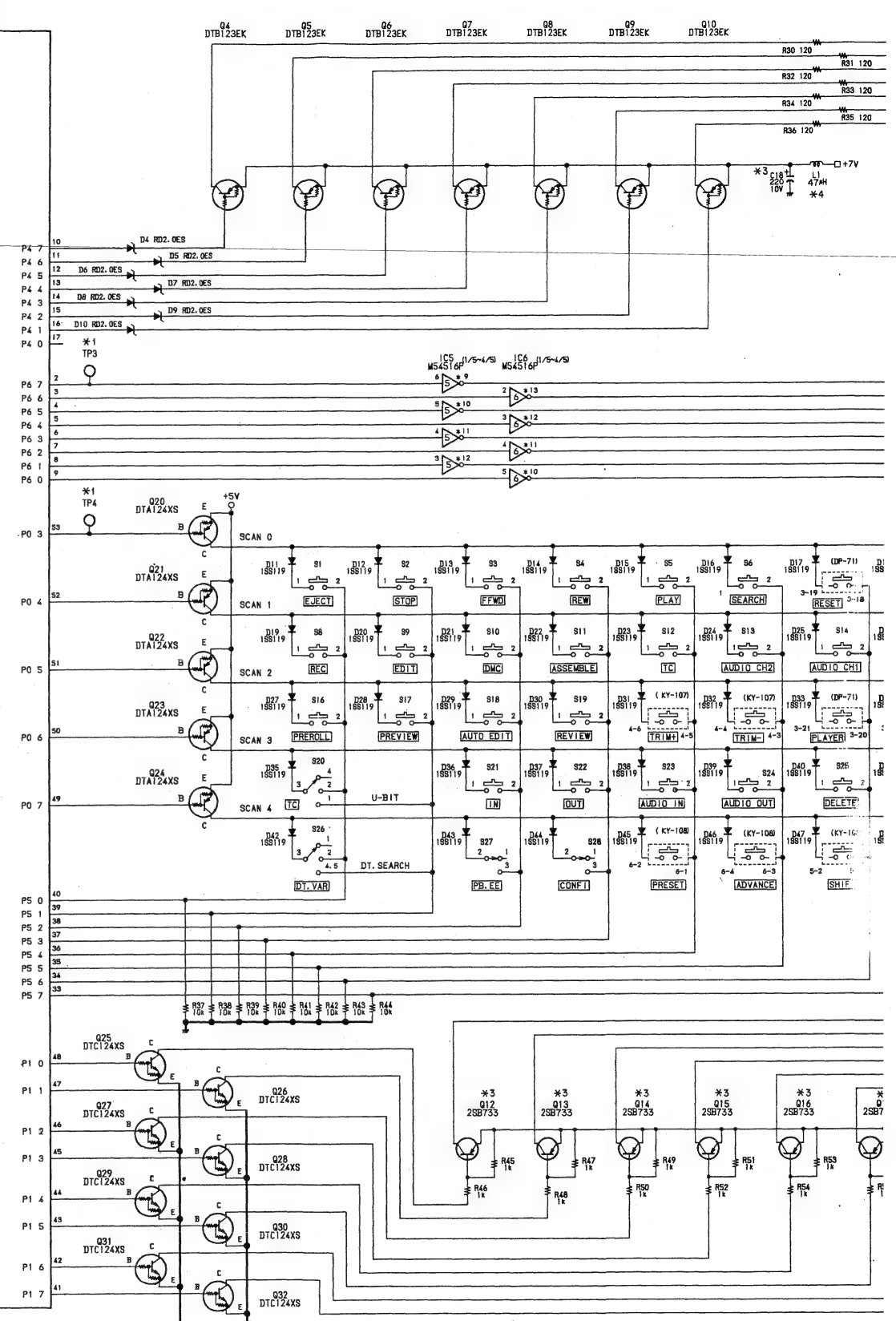
NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	CL-24 BOARD ADDED	UC; S/N 15552 ~ J; S/N 12319 ~



HC-11
1-622-595-11
BVW-60 BVW-70
BVW-65 BVW-75
BVW-95 BVW-96

MARK	CHANGE INFORMATION	SERIAL NO.
*1	DELETED T1,2,3,4,5,6	UC; S/N 13781 ~ J; S/N 11569 ~
*2	IC1 M5236L → M5237L R2 15k → 0.01	UC; S/N 15894 ~ J; S/N 12589 ~
*3	C4 470/10V → 220/10V C6 470/10V → 220/10V C18 470/10V → 220/10V C19 470/10V → 220/10V C45 470/10V → 220/10V Q12 ~ Q19 2S8822-R → 2S8733	UC; S/N 16325 ~ J; S/N 12754 ~
*4	L1,2 470 μ H → 47 μ H	UC; S/N 17065 ~ J; S/N 13244 ~

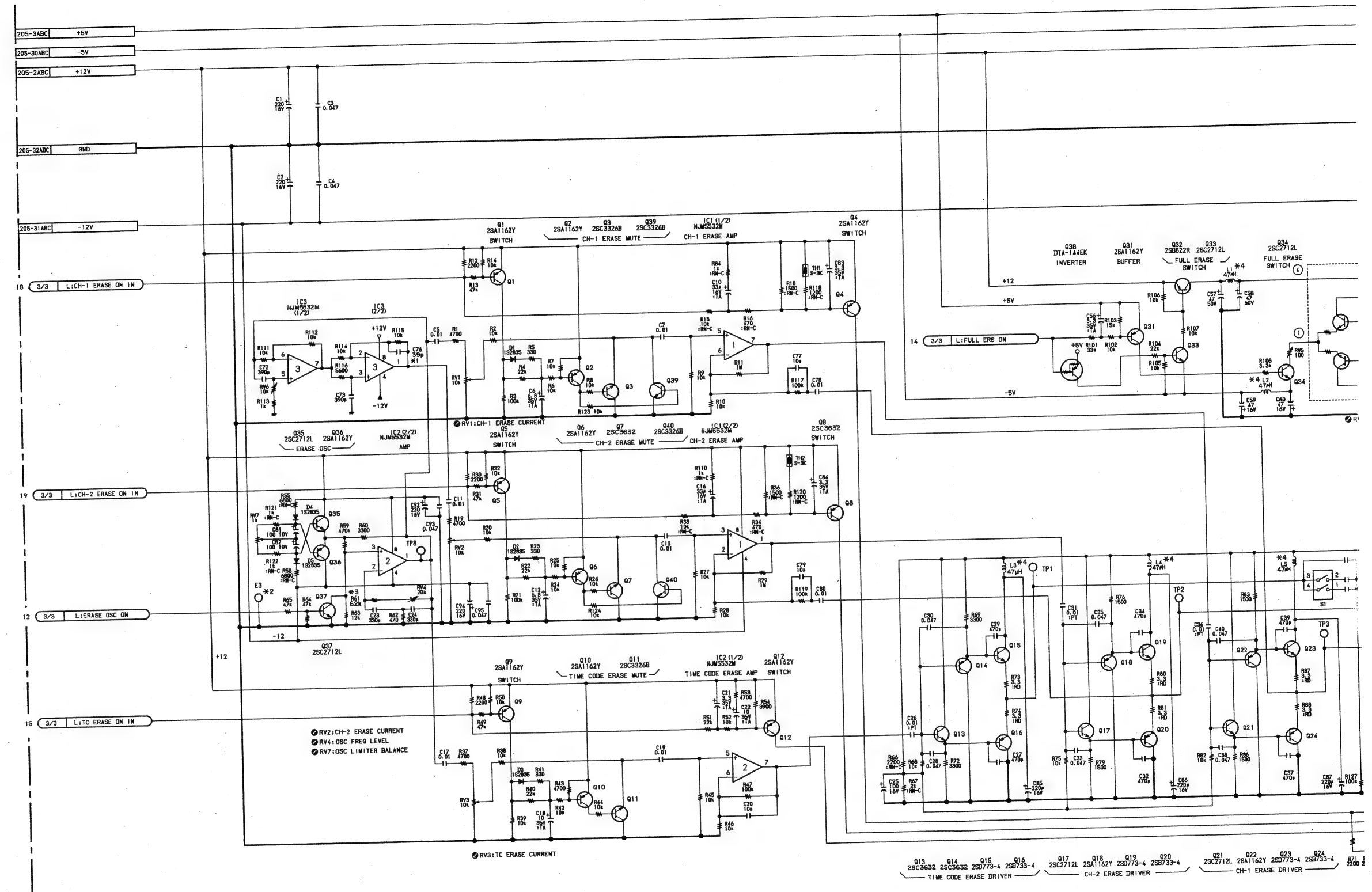


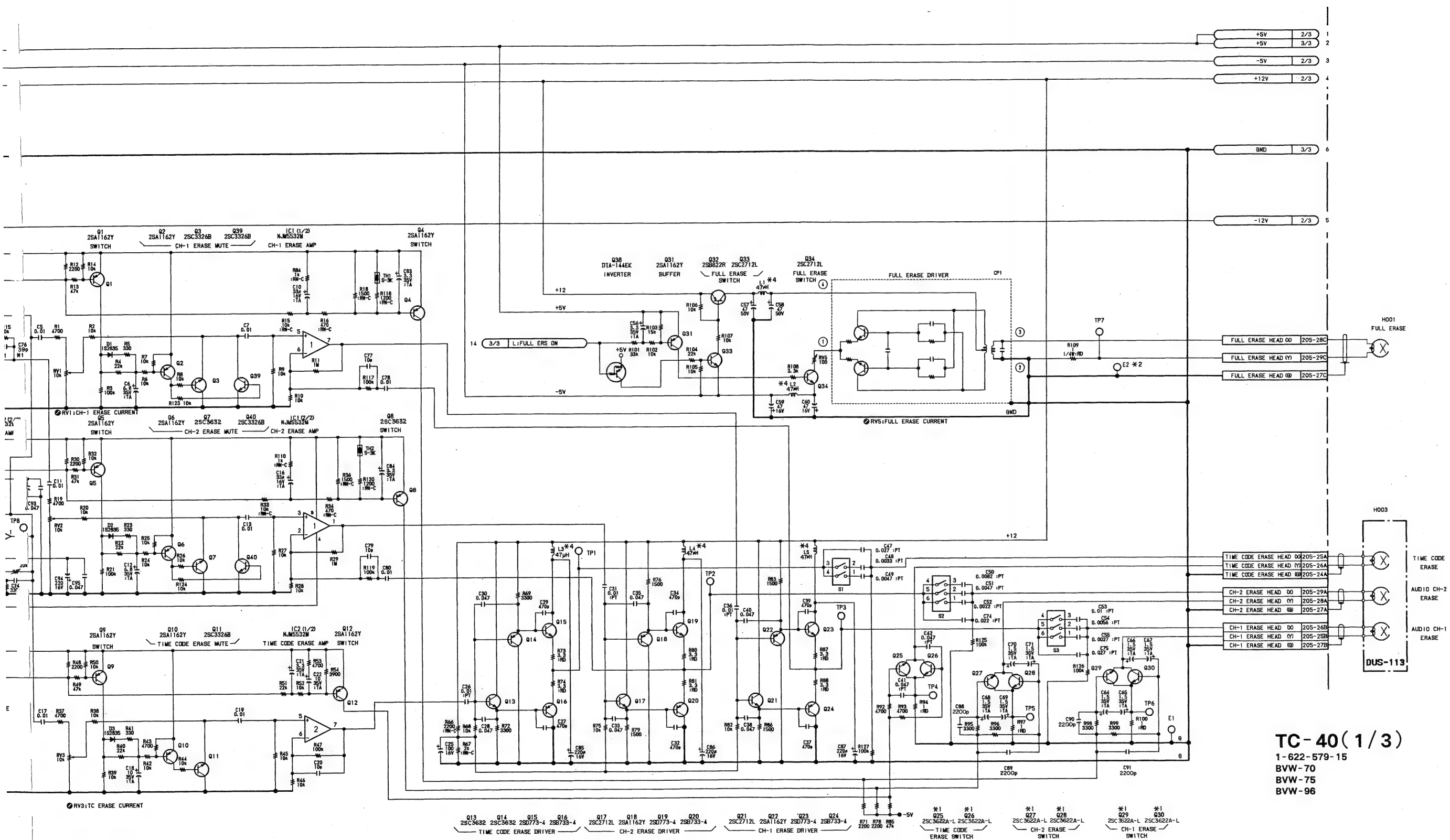


TC-40 (1/3) ; FULL ERASE OSCILLATOR, CH-1/CH-2/LTC ERASE DRIVER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	Q25-30 2SC2878B → 2SC3622A-L	UC: S/N 13226 ~ J: S/N 11304 ~
*2	E2 DELETED E3 DELETED	UC: S/N 14369 ~ J: S/N 11669 ~
*3	R61 56k → 62k	UC: S/N 14822 ~ J: S/N 12029 ~
*4	L1,2,3,4,5 45μH → 47μH	UC: S/N 17118 ~ J: S/N 13389 ~



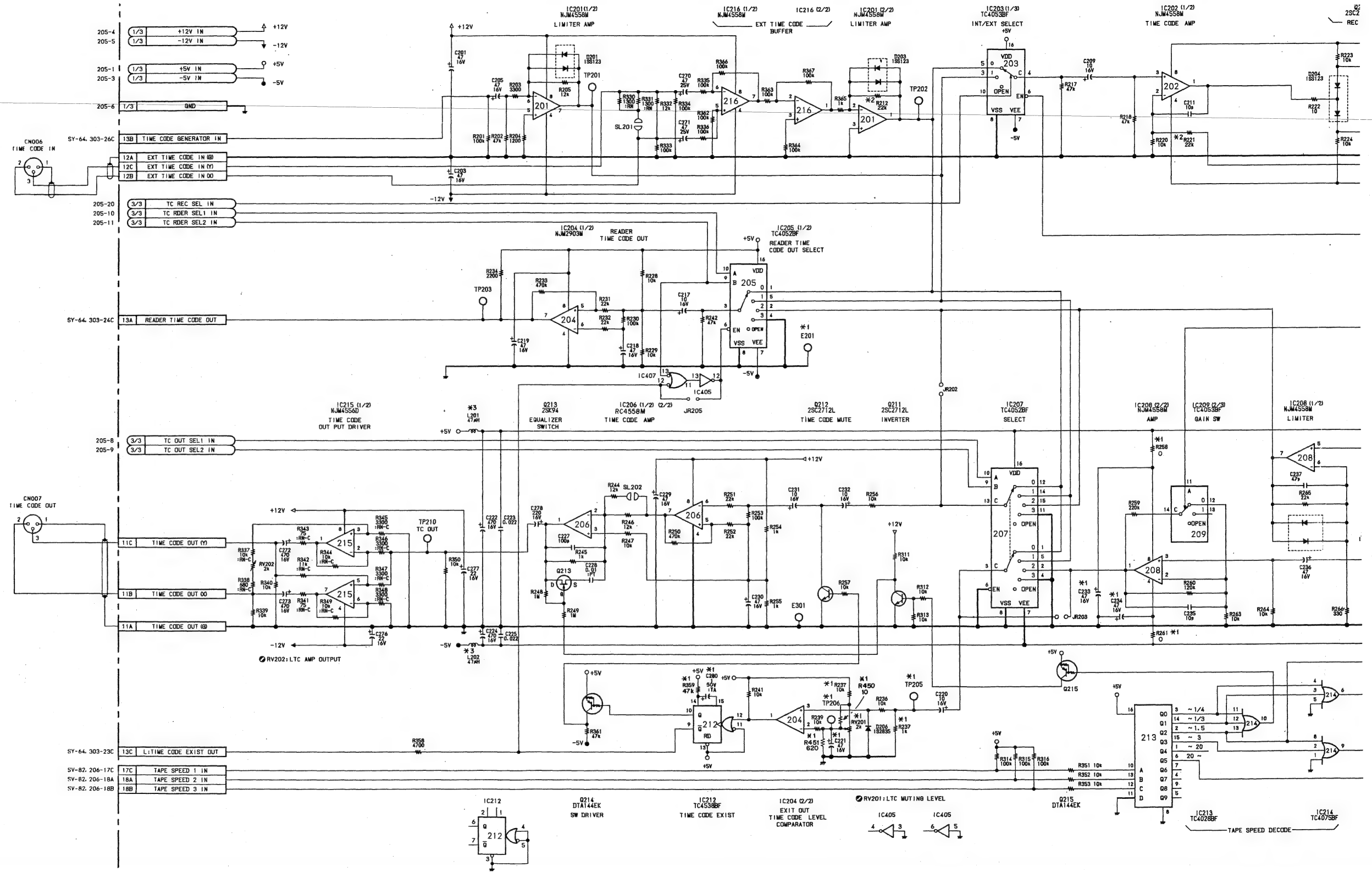


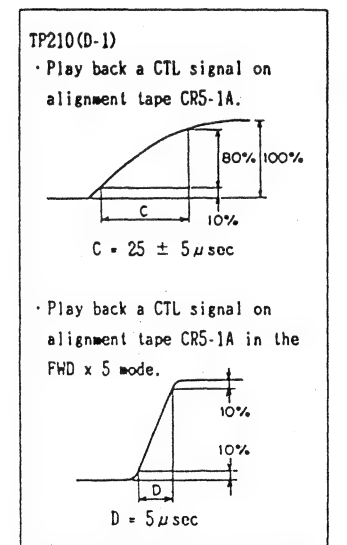
TC-40 (1/3)
1-622-579-15
BVW-70
BVW-75
BVW-96

TC-40 (2/3); LTC REC/PB AMPLIFIER

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	ADDED R450, R451 CHANGE C280 0.15/35V → 1/50V R238 → R237 R359 330k → 47k R258, R261, R269 R270, R271, R272 330 → 0 DELETED PARTS C221, C233, C234 C239, C240, C241 C242, R237, E201 TP205, TP206, RV201	UC: S/N 14369 ~ J: S/N 11669 ~
*2	R212 3900 → 22k R221 270k → 22k R227 4300 → 510	UC: S/N 16275 ~ J: S/N 12689 ~
*3	L201, 202 45μH → 47μH	UC: S/N 17118 ~ J: S/N 13389 ~

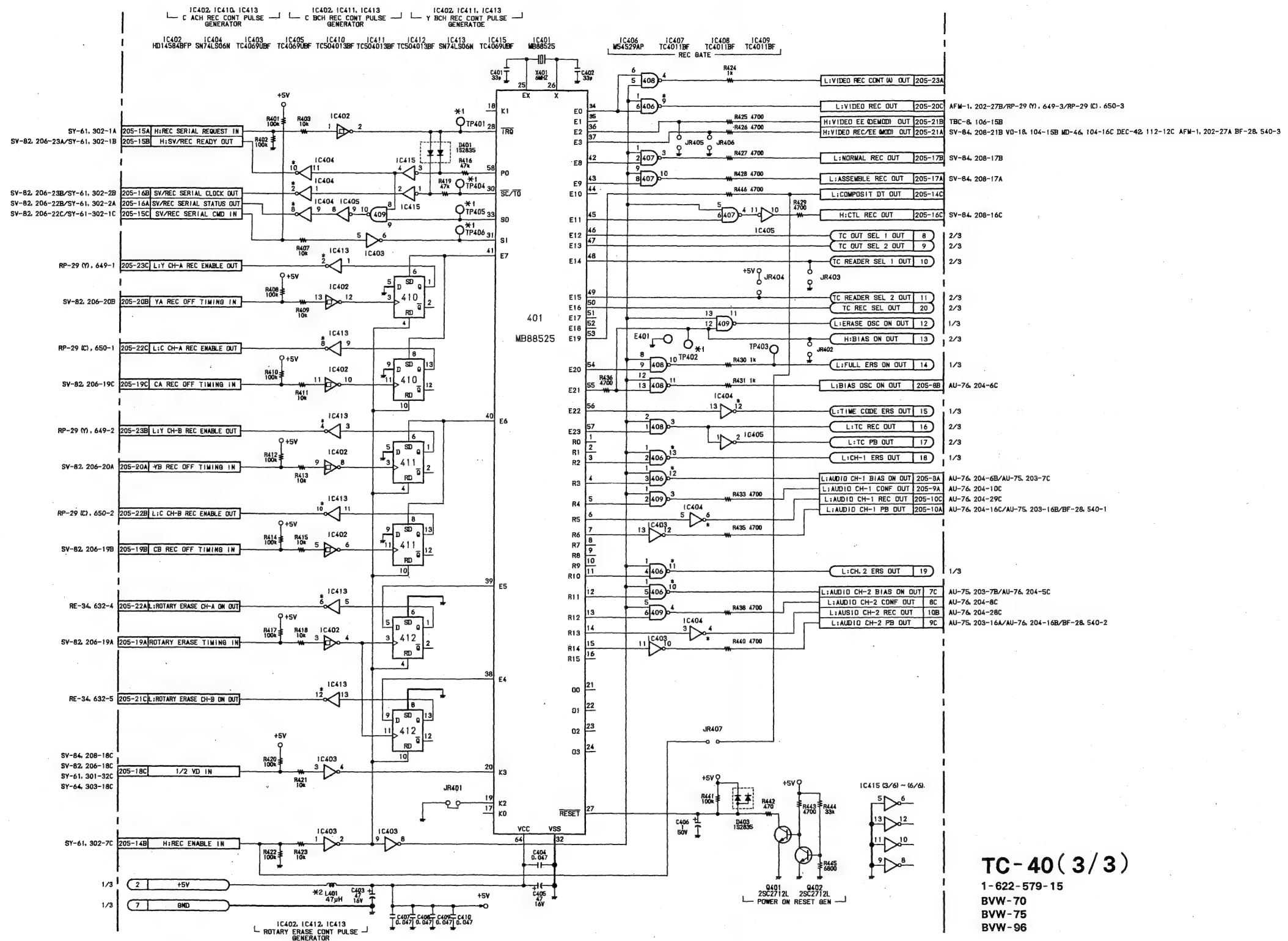




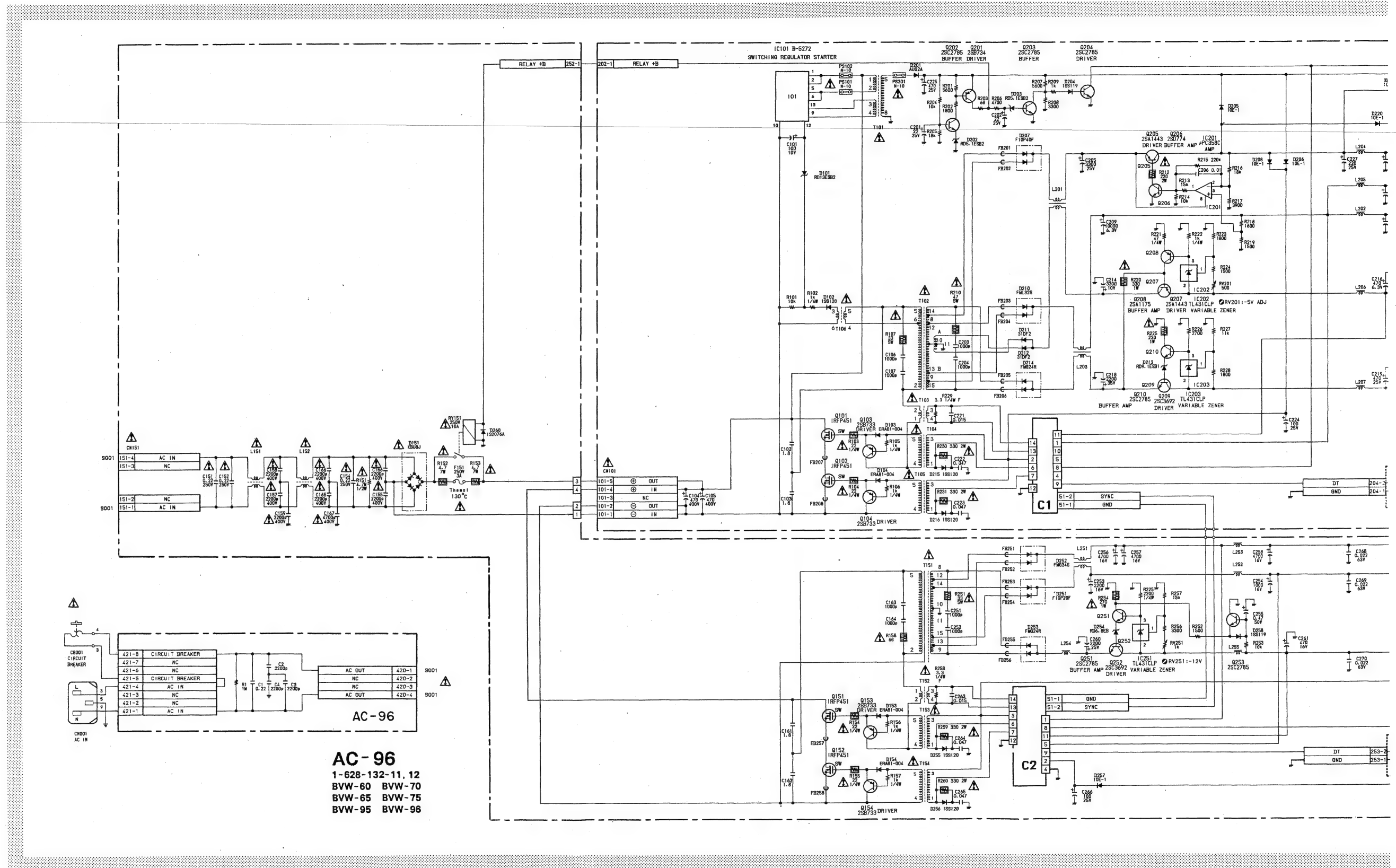
TC-40 (3/3) ; TIMING GENERATOR

NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	DELETED PARTS TP401, TP402, TP404, TP405, TP406	UC: S/N 14369 ~ J: S/N 11669 ~
*2	L401 45μH → 47μH	UC: S/N 17118 ~ J: S/N 13389 ~

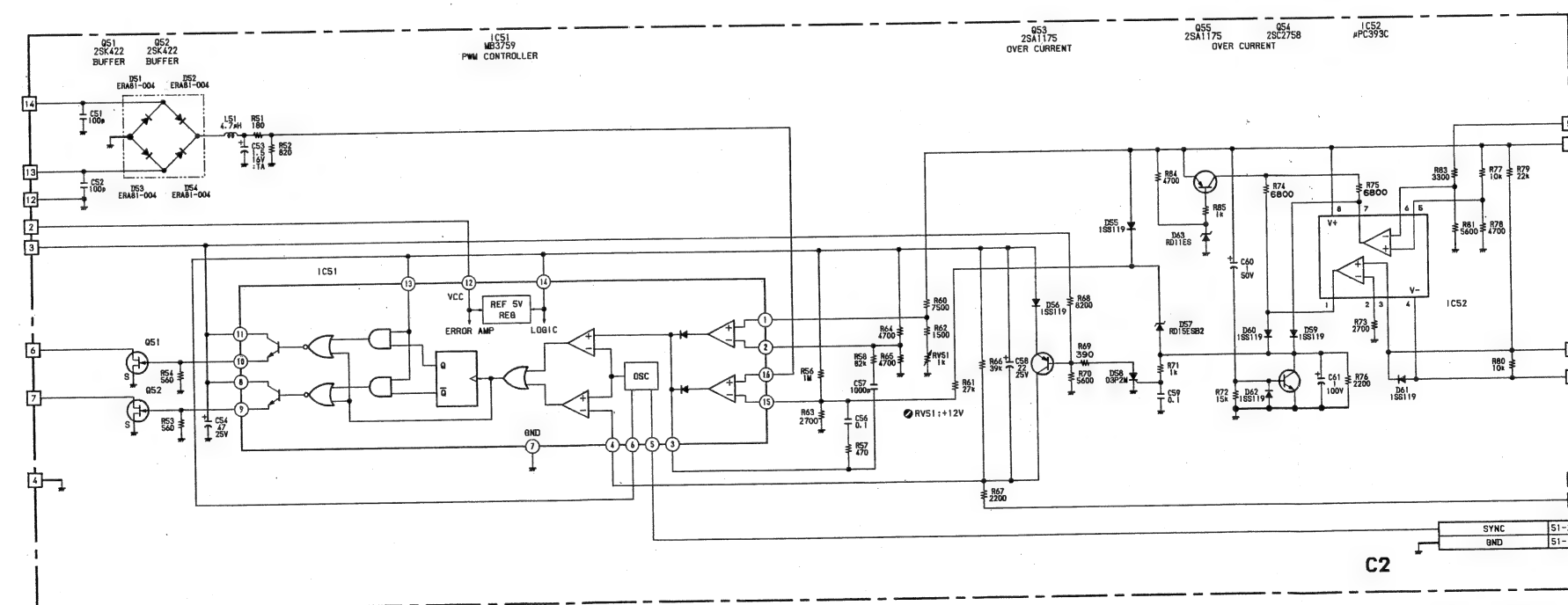
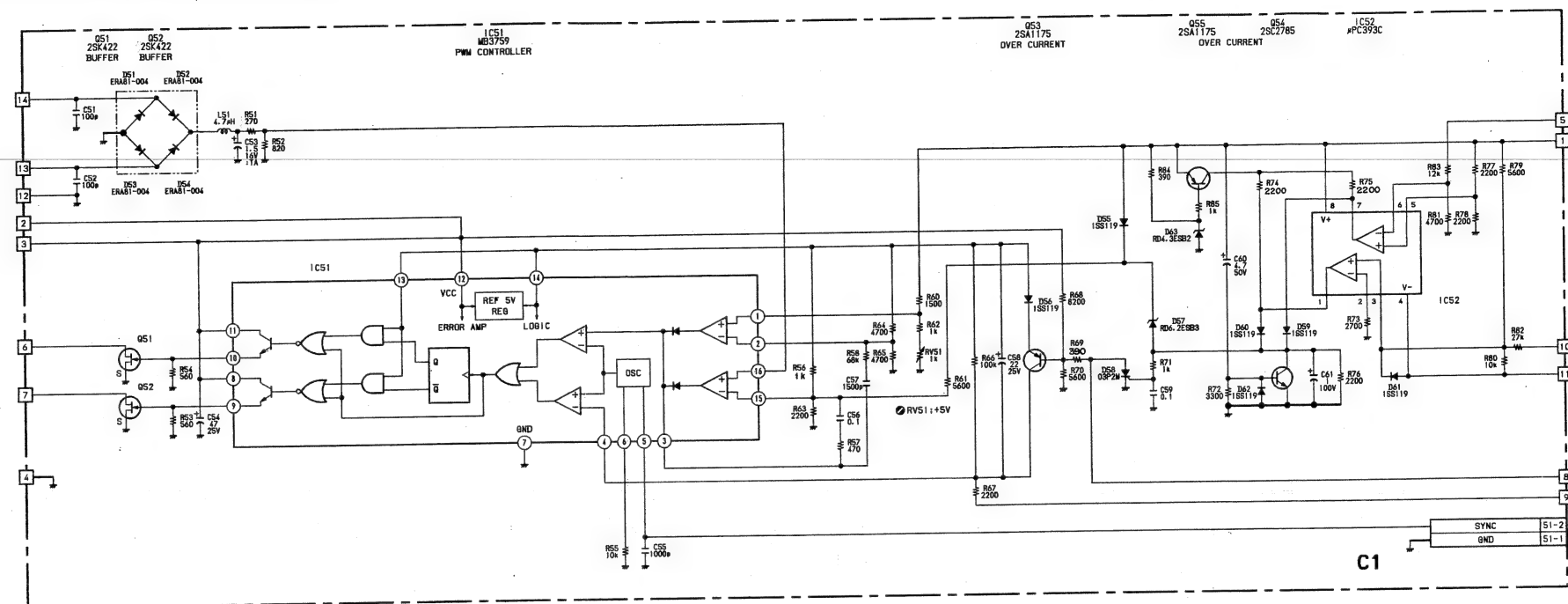
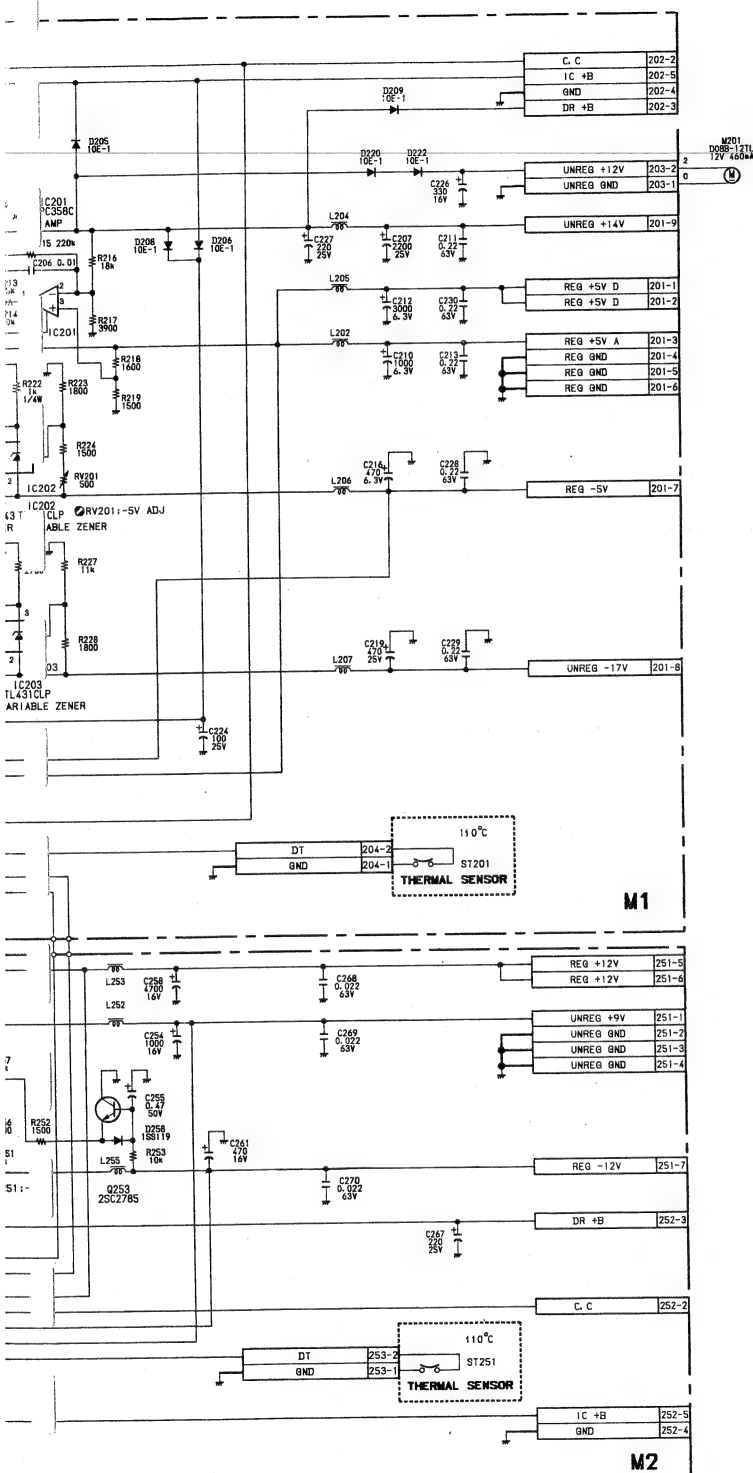


AC-96; RELAY BOARD OF AC INLET
C1; SWITCHING REGULATOR
C2; SWITCHING REGULATOR
M1; SWITCHING REGULATOR
M2; SWITCHING REGULATOR



NOTE:

The shaded and Δ -marked components are critical to safety.
Replace only with same components as specified.



UR-21B

1-413-307-24

BVW-60 BVW-70

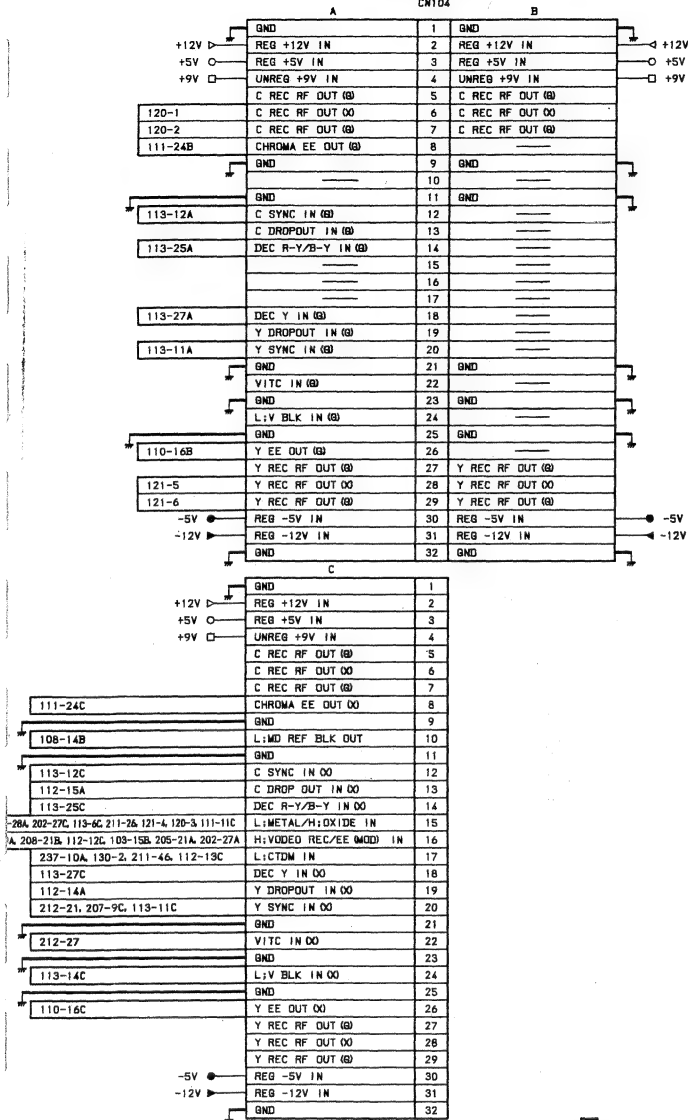
BVW-65 BVW-75

BVW-95 BVW-96



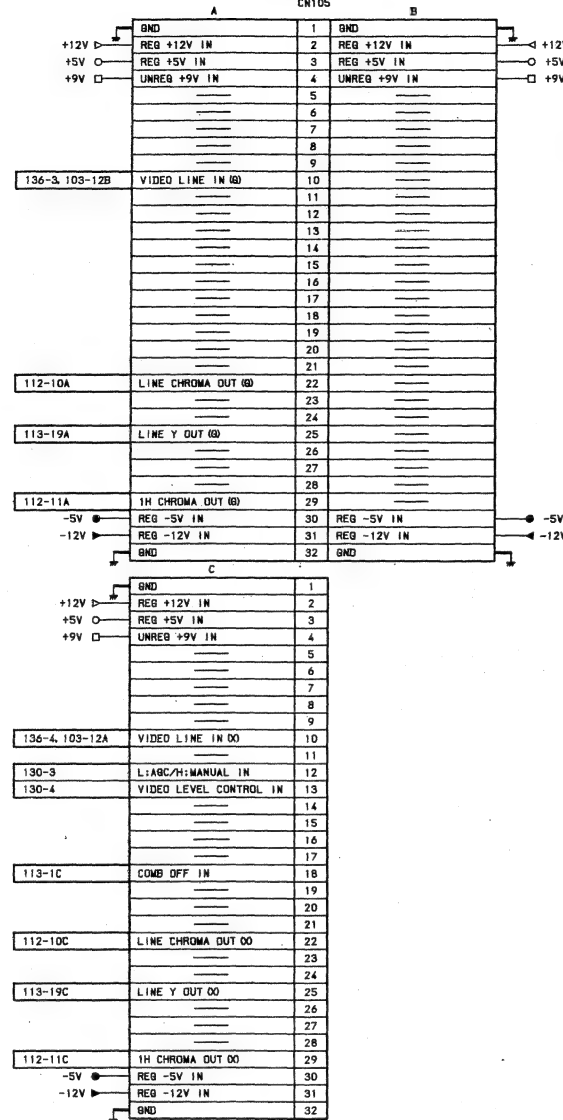
MD-46

CN104



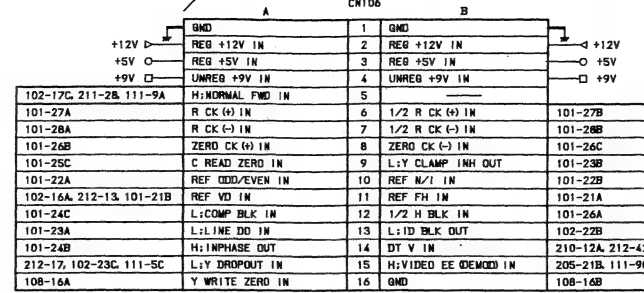
DEC-27

CN105

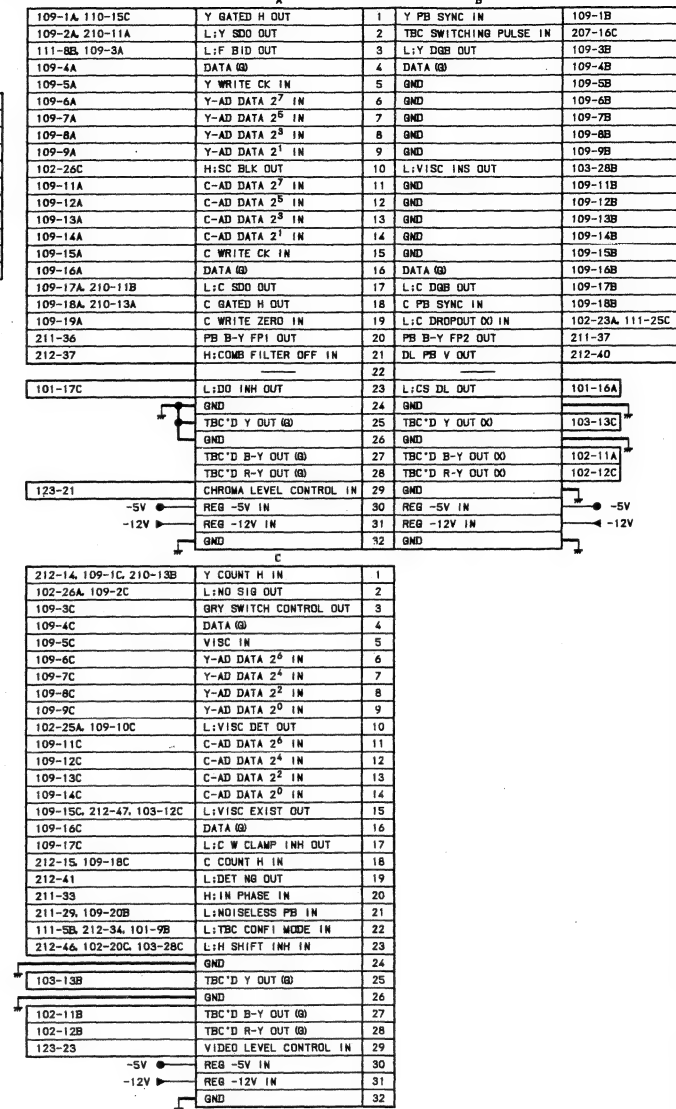


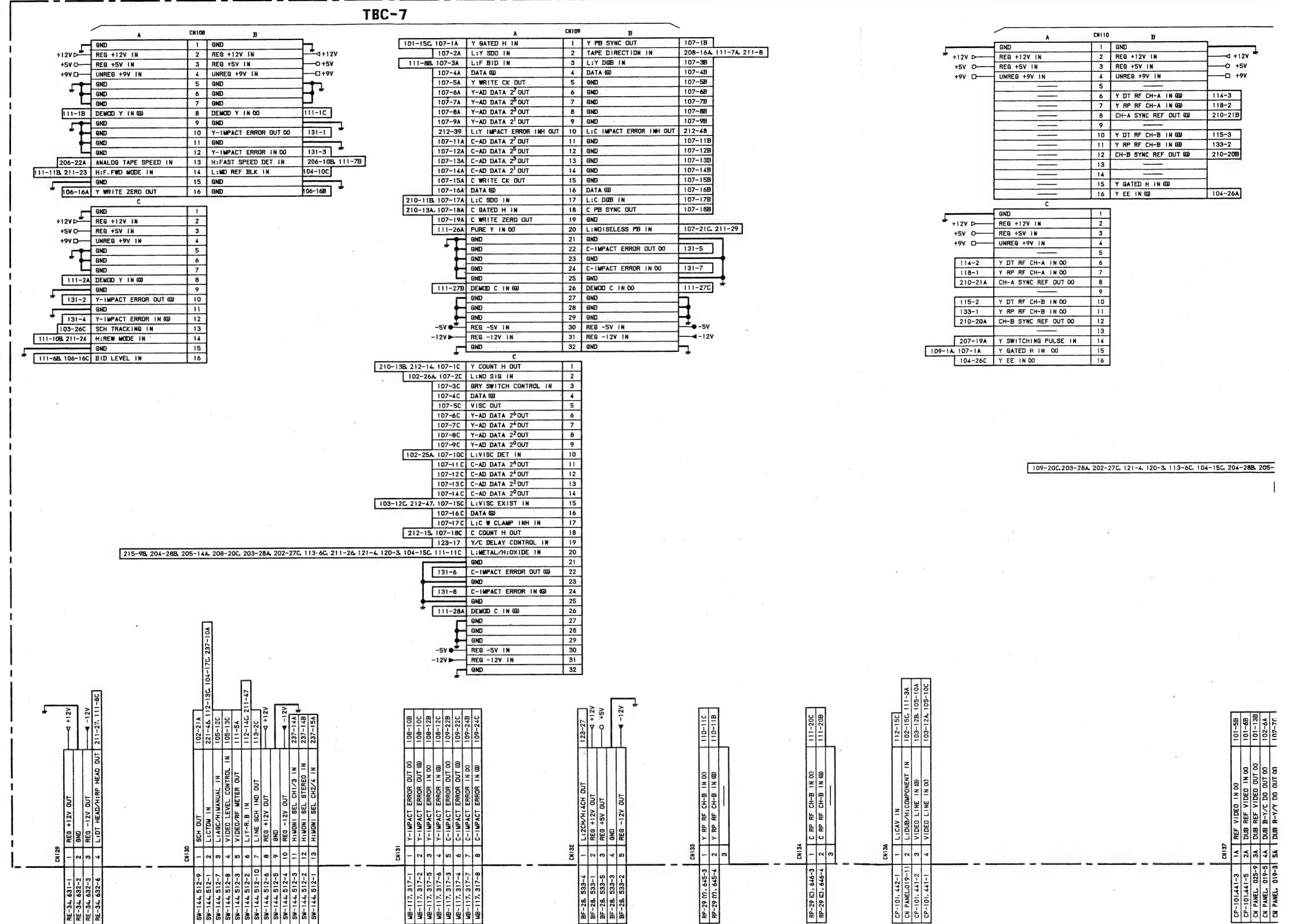
TBC-8

CN106

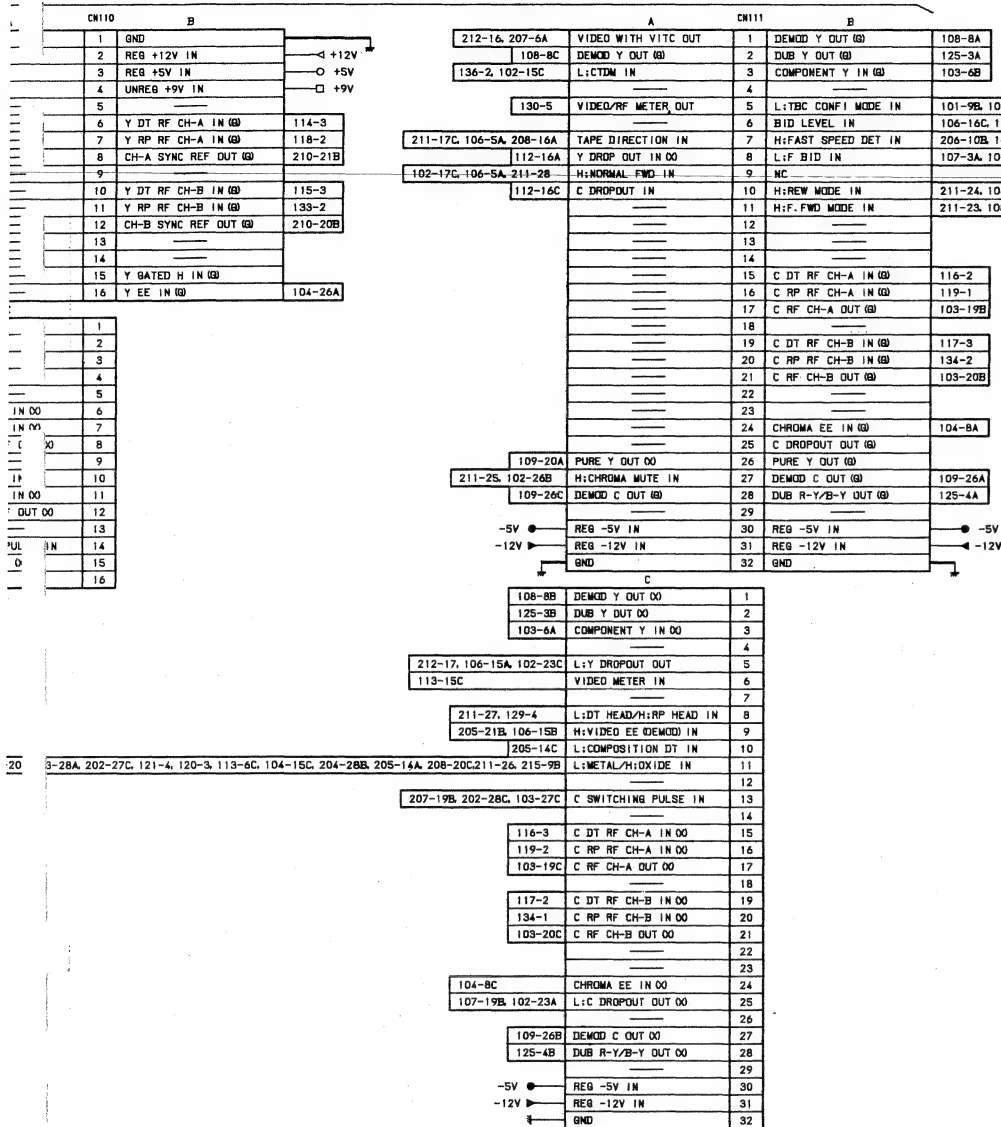


CN107

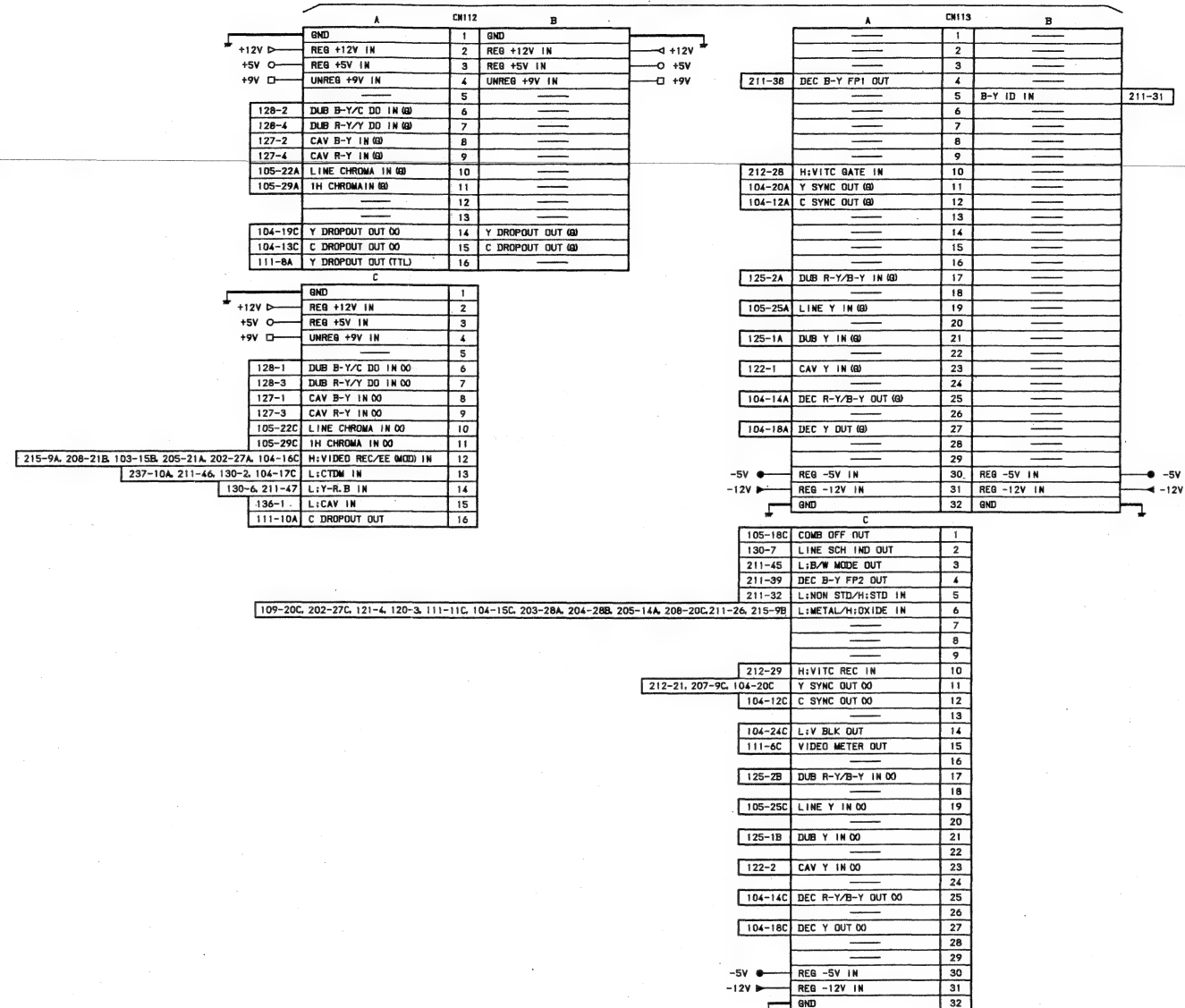




DM-56



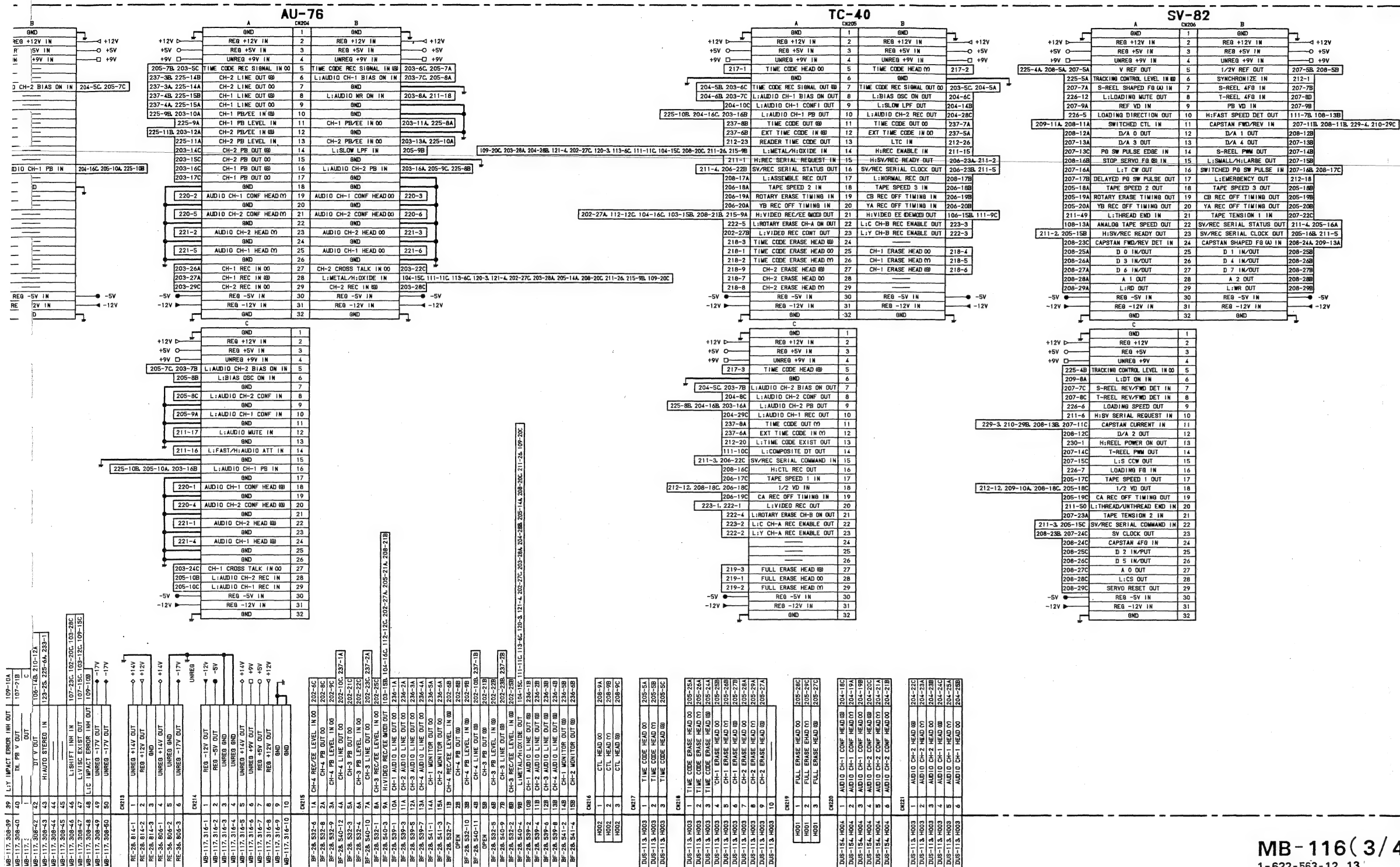
DEC-42



MB-116(2/4)

1-622-563-12, 13
BVW-75

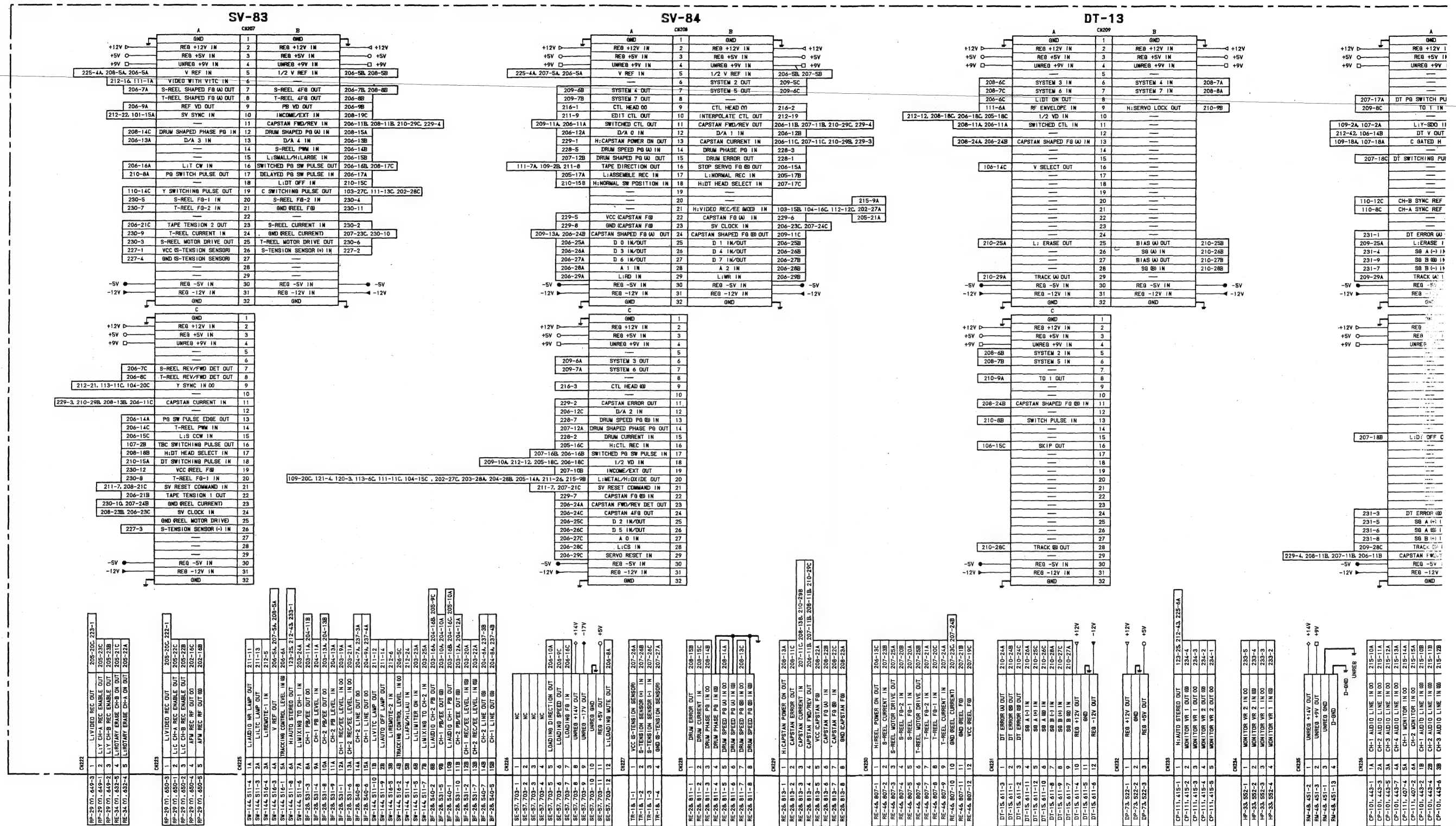




MB-116(3/4)

1-622-563-12, 13
BVW-75

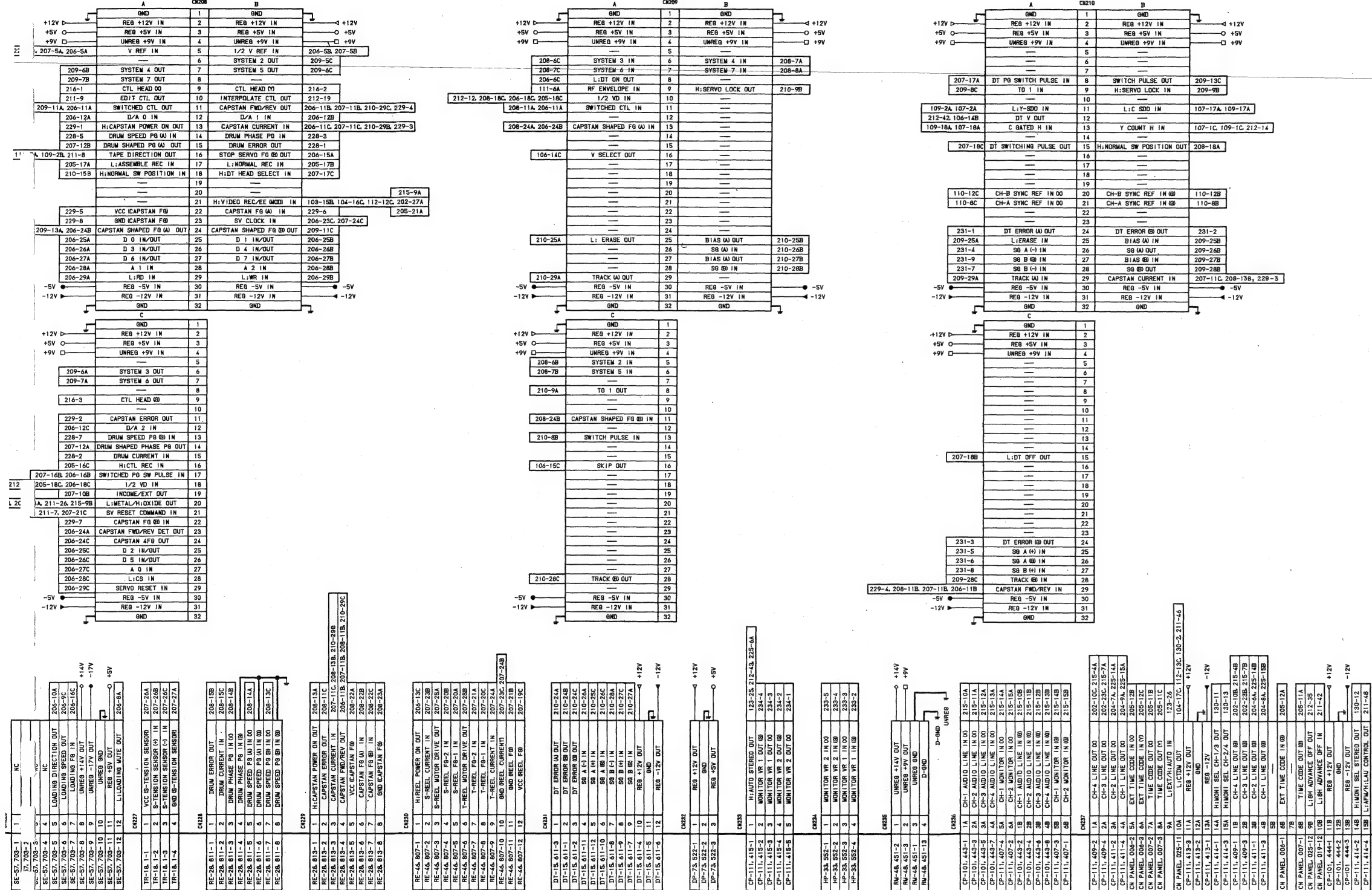
MB-116 (4/4); MOTHER BOARD



SV-84

DT-13

DT-14



MB-116(4/4)

1-622-563-12, 13
BVW-75

MB-117; MOTHER BOARD

SY-61

A		B	
12V	1	12V	1
5V	2	5V	2
5V	3	5V	3
14V	4	14V	4
UNREG	5	UNREG	5
UNREG	6	UNREG	6
306-1	7	306-2	7
306-4	8	306-5	8
306-7	9	306-8	9
306-10	10	306-11	10
306-13	11	306-14	11
306-16	12	306-17	12
306-19	13	306-20	13
306-21	14	306-22	14
306-24	15	306-25	15
306-27	16	306-28	16
306-30	17	306-31	17
306-34	18	306-35	18
306-37	19	306-38	19
306-39	20	306-40	20
306-42	21	306-43	21
306-45	22	306-46	22
306-48	23	306-49	23
306-51	24	306-52	24
306-54	25	306-55	25
306-57	26	306-58	26
306-60	27	306-61	27
306-63	28	306-64	28
306-66	29	306-67	29
306-69	30	306-70	30
306-72	31	306-73	31
306-75	32	306-76	32

A		B	
12V	1	12V	1
5V	2	5V	2
5V	3	5V	3
14V	4	14V	4
UNREG	5	UNREG	5
UNREG	6	UNREG	6
307-1	7	307-2	7
307-4	8	307-5	8
307-7	9	307-8	9
307-10	10	307-11	10
307-13	11	307-14	11
307-16	12	307-17	12
307-19	13	307-20	13
307-22	14	307-23	14
307-25	15	307-26	15
307-28	16	307-29	16
307-31	17	307-32	17
307-34	18	307-35	18
307-37	19	307-38	19
307-40	20	307-41	20
307-43	21	307-44	21
307-46	22	307-47	22
307-49	23	307-50	23
307-52	24	307-53	24
307-55	25	307-56	25
307-58	26	307-59	26
307-61	27	307-62	27
307-64	28	307-65	28
307-67	29	307-68	29
307-70	30	307-71	30
307-73	31	307-74	31
307-76	32	307-77	32

SY-64

A		B	
12V	1	12V	1
5V	2	5V	2
5V	3	5V	3
14V	4	14V	4
UNREG	5	UNREG	5
UNREG	6	UNREG	6
308-1	7	308-2	7
308-4	8	308-5	8
308-7	9	308-8	9
308-10	10	308-11	10
308-13	11	308-14	11
308-16	12	308-17	12
308-19	13	308-20	13
308-22	14	308-23	14
308-25	15	308-26	15
308-28	16	308-29	16
308-31	17	308-32	17
308-34	18	308-35	18
308-37	19	308-38	19
308-40	20	308-41	20
308-43	21	308-44	21
308-46	22	308-47	22
308-49	23	308-50	23
308-52	24	308-53	24
308-55	25	308-56	25
308-58	26	308-59	26
308-61	27	308-62	27
308-64	28	308-65	28
308-67	29	308-68	29
308-70	30	308-71	30
308-73	31	308-74	31
308-76	32	308-77	32

A		B	
12V	1	12V	1
5V	2	5V	2
5V	3	5V	3
14V	4	14V	4
UNREG	5	UNREG	5
UNREG	6	UNREG	6
309-1	7	309-2	7
309-4	8	309-5	8
309-7	9	309-8	9
309-10	10	309-11	10
309-13	11	309-14	11
309-16	12	309-17	12
309-19	13	309-20	13
309-22	14	309-23	14
309-25	15	309-26	15
309-28	16	309-29	16
309-31	17	309-32	17
309-34	18	309-35	18
309-37	19	309-38	19
309-40	20	309-41	20
309-43	21	309-44	21
309-46	22	309-47	22
309-49	23	309-50	23
309-52	24	309-53	24
309-55	25	309-56	25
309-58	26	309-59	26
309-61	27	309-62	27
309-64	28	309-65	28
309-67	29	309-68	29
309-70	30	309-71	30
309-73	31	309-74	31
309-76	32	309-77	32

A		B	
12V	1	12V	1
5V	2	5V	2
5V	3	5V	3
14V	4	14V	4
UNREG	5	UNREG	5
UNREG	6	UNREG	6
310-1	7	310-2	7
310-4	8	310-5	8
310-7	9	310-8	9
310-10	10	310-11	10
310-13	11	310-14	11
310-16	12	310-17	12
310-19	13	310-20	13
310-22	14	310-23	14
310-25	15	310-26	15
310-28	16	310-29	16
310-31	17	310-32	17
310-34	18	310-35	18
310-37	19	310-38	19
310-40	20	310-41	20
310-43	21	310-44	21
310-46	22	310-47	22
310-49	23	310-50	23
310-52	24	310-53	24
310-55	25	310-56	25
310-58	26	310-59	26
310-61	27	310-62	27
310-64	28	310-65	28
310-67	29	310-68	29
310-70	30	310-71	30
310-73	31	310-74	31
310-76	32	310-77	32

A		B	
12V	1	12V	1
5V	2	5V	2
5V	3	5V	3
14V	4	14V	4
UNREG	5	UNREG	5
UNREG	6	UNREG	6
311-1	7	311-2	7
311-4	8	311-5	8
311-7	9	311-8	9
311-10	10	311-11	10
311-13	11	311-14	11
311-16	12	311-17	12
311-19	13	311-20	13
311-22	14	311-23	14
311-25	15	311-26	15
311-28	16	311-29	16
311-31	17	311-32	17
311-34	18	311-35	18
311-37	19	311-38	19
311-40	20	311-41	20
311-43	21	311-44	21
311-46	22	311-47	22
311-49	23	311-50	23
311-52	24	311-53	24
311-55	25	311-56	25
311-58	26	311-59	26
311-61	27	311-62	27
311-64	28	311-65	28
311-67	29	311-68	29
311-70	30	311-71	30
311-73	31	311-74	31
311-76	32	311-77	32

A		B	
12V	1	12V	1
5V	2	5V	2
5V	3	5V	3
14V	4	14V	4
UNREG	5	UNREG	5
UNREG	6	UNREG	6
312-1	7	312-2	7
312-4	8	312-5	8
312-7	9	312-8	9
312-10	10	312-11	10
312-13	11	312-14	11
312-16	12	312-17	12
312-19	13	312-20	13
312-22	14	312-23	14
312-25	15	312-26	15
312-28	16	312-29	16
312-31	17	312-32	17
312-34	18	312-35	18
312-37	19	312-38	19
312-40	20	312-41	20
312-43	21	312-44	21
312-46	22	312-47	22
312-49	23	312-50	23
312-52	24	312-53	24
312-55	25	312-56	25
312-58	26	312-59	26
312-61	27	312-62	27
312-64	28	312-65	28
312-67	29	312-68	29
312-70	30	312-71	30
312-73	31	312-74	31
312-76	32	312-77	32

SY-64

A		B	
1	REC SERIAL REQUEST IN	1	H:SV/REC READY IN
2	SV/REC SERIAL STATUS IN	2	SV/REC SERIAL CLOCK IN
3	H:SV SERIAL REQUEST OUT	3	RESET COMMAND IN
4	TAPE DIRECTION IN	307-8, 303-25B	
5			
6	AUDIO NR IN	6	L:AUDIO NR LAMP OUT
7	LTC LAMP OUT	7	L:TAPE DIRECTION IN
8	L:FAST/H:AUDIO ATT OUT	8	L:TAPE DIRECTION IN
9	H:AFM MUTE OUT	9	L:TAPE DIRECTION IN
10		10	L:TAPE DIRECTION IN
11	F VD IN	11	REF HD IN
12	CHARACTER SIGNAL OUT	12	CHARACTER GATE OUT
13		13	
14		14	
15		15	
16		16	
17		17	
18		18	
19		19	
20		20	
21	DATA BUS 7 IN/OUT	21	L:EXP RESET OUT
22	DATA BUS 6 IN/OUT	22	H:AUTO STEREO IN
23	DATA BUS 5 IN/OUT	23	
24	DATA BUS 4 IN/OUT	24	ADDRESS BUS 4 OUT
25	DATA BUS 3 IN/OUT	25	ADDRESS BUS 3 OUT
26	DATA BUS 2 IN/OUT	26	ADDRESS BUS 2 OUT
27	DATA BUS 1 IN/OUT	27	ADDRESS BUS 1 OUT
28	DATA BUS 0 IN/OUT	28	ADDRESS BUS 0 OUT
29	UNREG -17V IN	29	UNREG -17V IN
30	-5V IN	30	REG -5V IN
31	-12V IN	31	REG -12V IN
32	GND	32	GND

C	
1	SV/REC SERIAL COMMAND OUT
2	
3	
4	CTL IN
5	
6	LTC LAMP OUT
7	H:REC ENABLE OUT
8	L:AUDIO NR ON OUT
9	FAN MOTOR CHECK IN
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	L:CS VITC READER OUT
22	S LTC READER OUT
23	S TCG OUT
24	S MECH I/O OUT
25	S TC I/O OUT
26	L:CS VIDEO I/O OUT
27	L:RD OUT
28	L:WR OUT
29	REG -17V IN
30	-5V IN
31	-12V IN
32	GND

A		B	
1	GND	1	GND
2	REG +12V IN	2	REG +12V IN
3	REG +5V IN	3	REG +5V IN
4	UNREG +9V IN	4	UNREG +9V IN
5	UNREG +14V IN	5	UNREG +14V IN
6	UNREG GND	6	UNREG GND
7	L:Y IMPACT ERROR INH IN	7	L:Y IMPACT ERROR INH IN
8		8	
9	GND	9	GND
10	GND	10	GND
11	TAPE BEGIN SENSOR IN	11	TAPE BEGIN SENSOR IN
12	GND	12	GND
13	TAPE END SENSOR IN	13	TAPE END SENSOR IN
14	GND	14	GND
15	Y-IMPACT ERROR IN	15	Y-IMPACT ERROR IN
16	C-IMPACT ERROR IN	16	C-IMPACT ERROR IN
17	Y-IMPACT ERROR OUT	17	Y-IMPACT ERROR OUT
18	C-IMPACT ERROR OUT	18	C-IMPACT ERROR OUT
19	REF VD IN	19	Y COUNT H IN
20	DT-V	20	L:AFM/H:LAU IN
21	H.M. CONTROL T2 OUT	21	H.M. CONTROL T3 OUT
22	VIDEO WITH VITC IN	22	VIDEO WITH VITC IN
23	L:EMERGENCY IN	23	INTERPOLATE CTL IN
24	Y SYNC IN	24	SV SYNC IN
25	EDIT CTL IN	25	TAPE DIRECTION IN
26	VITC INT OUT	26	VITC INT OUT
27	H:VITC GATE OUT	27	H:VITC GATE OUT
28	L:TAPE BEGIN OUT	28	L:TAPE BEGIN OUT
29	SV 2 OUT	29	SV 2 OUT
30	L:THICKNESS TAPE IN	30	L:THICKNESS TAPE IN
31	H:COMB FILTER OFF OUT	31	H:COMB FILTER OFF OUT
32	L:H SHIFT INH OUT	32	L:H SHIFT INH OUT

C	
1	GND
2	REG +12V IN
3	REG +5V IN
4	UNREG +9V IN
5	UNREG +14V IN
6	UNREG GND
7	
8	L:EXT. KEY BOARD TEST OUT
9	CONDENSATION SENSOR IN
10	GND
11	GND
12	GND
13	GND
14	GND
15	GND
16	GND
17	DL PB V IN
18	1/2 VD IN
19	C COUNT H IN
20	L:TAPE BEGIN IN
21	H.M. CONTROL T1 OUT
22	H.M. CONTROL CT OUT
23	L:Y DROPOUT IN
24	L:TIME CODE EXIST IN
25	READER TIME CODE IN
26	TIME CODE GEN INT OUT
27	LTC OUT
28	H:VITC REC OUT
29	L:TAPE END OUT
30	L:REC OUT
31	L:8H ADVANCE OFF OUT
32	H:SERVO REF HOLD OUT

A		B	
307-23	H:F.FWD MODE OUT	1	H:REW MODE OUT
307-24	L:METAL/H:OXIDE OUT	2	L:DT HEAD/H:RP HEAD OUT
307-25	L:MON/LESS PB OUT	3	L:DT ADVANCE OFF OUT
307-26	L:MON STD/H:STD OUT	4	H:IN PHASE OUT
307-27	INT KEY SERIAL STATUS OUT	5	REF FIRST FIELD IN
307-28	PB B-Y FP1 IN	6	PB B-Y FP2 IN
307-29	L:DET NG IN	7	DEC B-Y FP 1 IN
307-30	L:MON STD/H:STD IN	8	H:EXT SYNC DET IN
307-31	L:TBC BYPASS OFF IN	9	L:PLAYER BWM-10 IN
307-32	L:CTDM IN	10	L:Y-R.B IN
307-33	H:CASSETTE DOWN 1 IN	11	H:CASSETTE DOWN 2 IN
307-34	L:LARGE/H:SMALL IN	12	L:COMPARTMENT EXIST IN
307-35	H:L-POSITION IN	13	H:S-POSITION IN
307-36	THREAD END IN	14	THREAD/UNTHREAD END IN
307-37	PINCH SOL STARTER OUT	15	PINCH SOL HOLDER OUT
307-38	POSITION MOTOR (-) OUT	16	POSITION MOTOR (+) OUT
307-39	POSITION MOTOR (-) OUT	17	POSITION MOTOR (+) OUT
307-40	UP/DOWN MOTOR (-) OUT	18	UP/DOWN MOTOR (+) OUT
307-41	UP/DOWN MOTOR (+) OUT	19	UP/DOWN MOTOR (+) OUT
307-42	L:AFM/H:LAU CONTROL OUT	20	L:LARGE HUB IN
307-43	DATA BUS 7 IN/OUT	21	L:EXP RESET IN
307-44	DATA BUS 6 IN/OUT	22	H:AUTO STEREO OUT
307-45	DATA BUS 5 IN/OUT	23	
307-46	DATA BUS 4 IN/OUT	24	ADDRESS BUS 4 IN
307-47	DATA BUS 3 IN/OUT	25	ADDRESS BUS 3 IN
307-48	DATA BUS 2 IN/OUT	26	ADDRESS BUS 2 IN
307-49	DATA BUS 1 IN/OUT	27	ADDRESS BUS 1 IN
307-50	DATA BUS 0 IN/OUT	28	ADDRESS BUS 0 IN
307-51	UNREG -17V IN	29	UNREG -17V IN
307-52	REG -5V IN	30	REG -5V IN
307-53	REG -12V IN	31	REG -12V IN
307-54	GND	32	GND

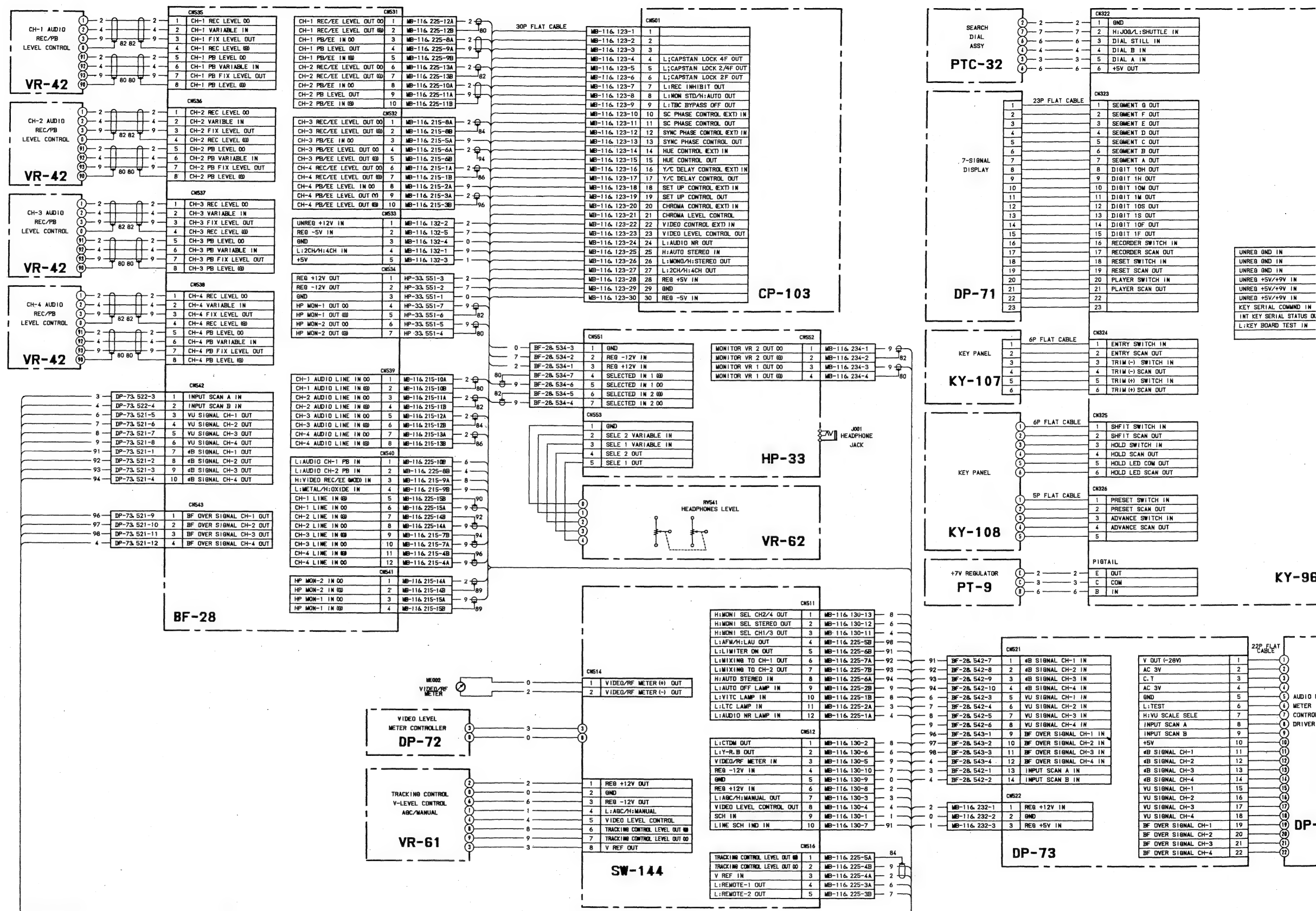
C	
307-25	H:CHROMA MUTE OUT
307-26	H:NORMAL FWD OUT
307-27	B-Y ID OUT
307-28	KEY SERIAL COMMAND IN
307-29	VIDEO OUT 1ST FIELD IN
307-30	L:VISC EXIST IN
307-31	DEC B-Y FP 2 IN
307-32	L:8H ADVANCE OFF IN
307-33	L:B/W MODE IN
307-34	
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307-42	
307-43	
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307-100	

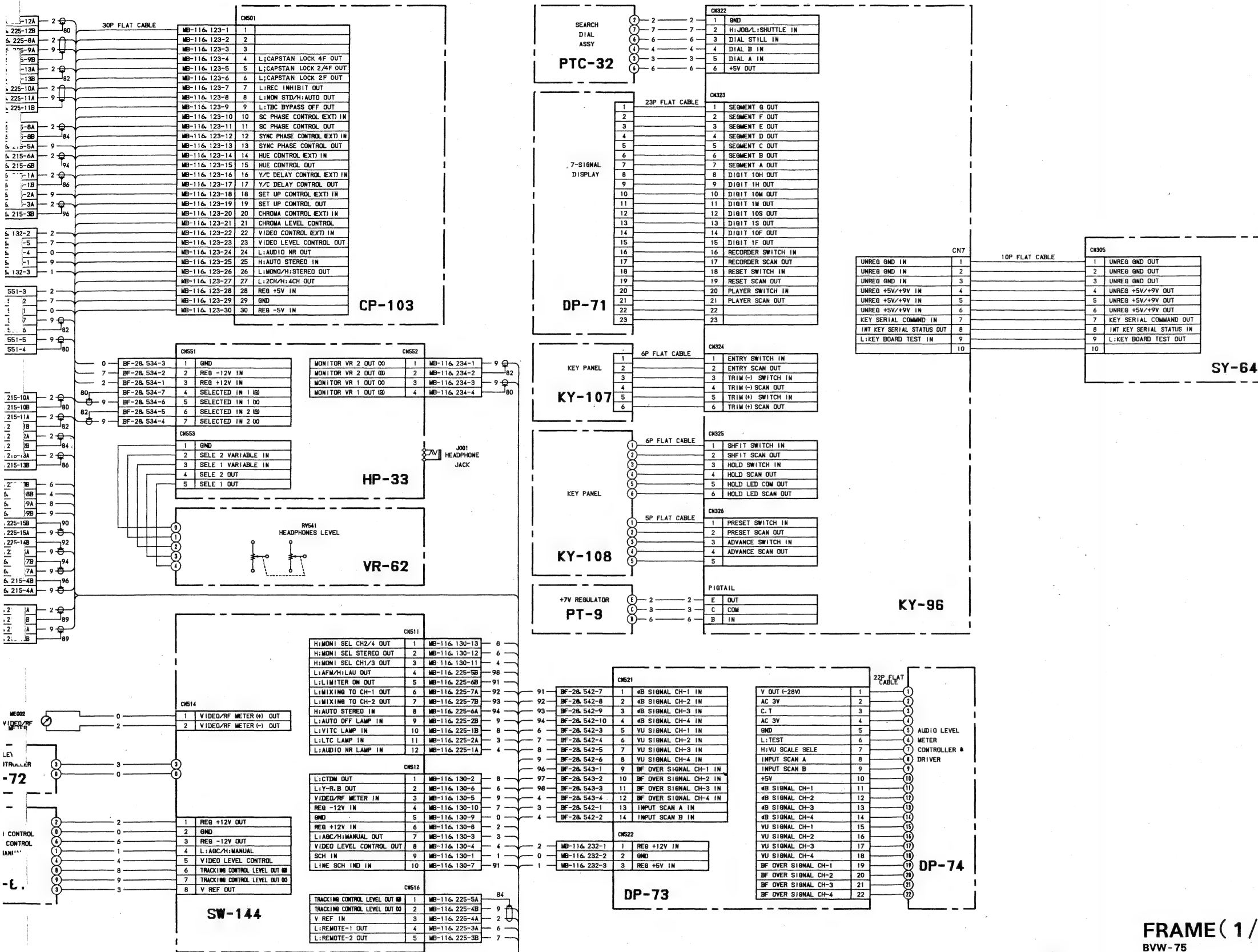
A		B	
307-23	H:F.FWD MODE OUT	1	H:REW MODE OUT
307-24	L:METAL/H:OXIDE OUT	2	L:DT HEAD/H:RP HEAD OUT
307-25	L:MON/LESS PB OUT	3	L:DT ADVANCE OFF OUT
307-26	L:MON STD/H:STD OUT	4	H:IN PHASE OUT
307-27	INT KEY SERIAL STATUS OUT	5	REF FIRST FIELD IN
307-28	PB B-Y FP1 IN	6	PB B-Y FP2 IN
307-29	L:DET NG IN	7	DEC B-Y FP 1 IN
307-30	L:MON STD/H:STD IN	8	H:EXT SYNC DET IN
307-31	L:TBC BYPASS OFF IN	9	L:PLAYER BWM-10 IN
307-32	L:CTDM IN	10	L:Y-R.B IN
307-33	H:CASSETTE DOWN 1 IN	11	H:CASSETTE DOWN 2 IN
307-34	L:LARGE/H:SMALL IN	12	L:COMPARTMENT EXIST IN
307-35	H:L-POSITION IN	13	H:S-POSITION IN
307-36	THREAD END IN	14	THREAD/UNTHREAD END IN
307-37	PINCH SOL STARTER OUT	15	PINCH SOL HOLDER OUT
307-38	POSITION MOTOR (-) OUT	16	POSITION MOTOR (+) OUT
307-39	POSITION MOTOR (-) OUT	17	POSITION MOTOR (+) OUT
307-40	UP/DOWN MOTOR (-) OUT	18	UP/DOWN MOTOR (+) OUT
307-41	UP/DOWN MOTOR (+) OUT	19	UP/DOWN MOTOR (+) OUT
307-42	L:AFM/H:LAU CONTROL OUT	20	L:LARGE HUB IN
307-43	DATA BUS 7 IN/OUT	21	L:EXP RESET IN
307-44	DATA BUS 6 IN/OUT	22	H:AUTO STEREO OUT
307-45	DATA BUS 5 IN/OUT	23	
307-46	DATA BUS 4 IN/OUT	24	ADDRESS BUS 4 IN
307-47	DATA BUS 3 IN/OUT	25	ADDRESS BUS 3 IN
307-48	DATA BUS 2 IN/OUT	26	ADDRESS BUS 2 IN
307-49	DATA BUS 1 IN/OUT	27	ADDRESS BUS 1 IN
307-50	DATA BUS 0 IN/OUT	28	ADDRESS BUS 0 IN
307-51	UNREG -17V IN	29	UNREG -17V IN
307-52	REG -5V IN	30	REG -5V IN
307-53	REG -12V IN	31	REG -12V IN
307-54	GND	32	GND

A		B	
307-23	H:F.FWD MODE OUT	1	H:REW MODE OUT
307-24	L:METAL/H:OXIDE OUT	2	L:DT HEAD/H:RP HEAD OUT
307-25	L:MON/LESS PB OUT	3	L:DT ADVANCE OFF OUT
307-26	L:MON STD/H:STD OUT	4	H:IN PHASE OUT
307-27	INT KEY SERIAL STATUS OUT	5	REF FIRST FIELD IN
307-28	PB B-Y FP1 IN	6	PB B-Y FP2 IN
307-29	L:DET NG IN	7	DEC B-Y FP 1 IN
307-30	L:MON STD/H:STD IN	8	H:EXT SYNC DET IN
307-31	L:TBC BYPASS OFF IN	9	L:PLAYER BWM-10 IN
307-32	L:CTDM IN	10	L:Y-R.B IN
307-33	H:CASSETTE DOWN 1 IN	11	H:CASSETTE DOWN 2 IN
307-34	L:LARGE/H:SMALL IN	12	L:COMPARTMENT EXIST IN
307-35	H:L-POSITION IN	13	H:S-POSITION IN
307-36	THREAD END IN	14	THREAD/UNTHREAD END IN
307-37	PINCH SOL STARTER OUT	15	PINCH SOL HOLDER OUT
307-38	POSITION MOTOR (-) OUT	16	POSITION MOTOR (+) OUT
307-39	POSITION MOTOR (-) OUT	17	POSITION MOTOR (+) OUT
307-40	UP/DOWN MOTOR (-) OUT	18	UP/DOWN MOTOR (+) OUT
307-41	UP/DOWN MOTOR (+) OUT	19	UP/DOWN MOTOR (+) OUT
307-42	L:AFM/H:LAU CONTROL OUT	20	L:LARGE HUB IN
307-43	DATA BUS 7 IN/OUT	21	L:EXP RESET IN
307-44	DATA BUS 6 IN/OUT	22	H:AUTO STEREO OUT
307-45	DATA BUS 5 IN/OUT	23	
307-46	DATA BUS 4 IN/OUT	24	ADDRESS BUS 4 IN
307-47	DATA BUS 3 IN/OUT	25	ADDRESS BUS 3 IN
307-48	DATA BUS 2 IN/OUT	26	ADDRESS BUS 2 IN
307-49	DATA BUS 1 IN/OUT	27	ADDRESS BUS 1 IN
307-50	DATA BUS 0 IN/OUT	28	ADDRESS BUS 0 IN
307-51	UNREG -17V IN	29	UNREG -17V IN
307-52	REG -5V IN	30	REG -5V IN
307-53	REG -12V IN	31	REG -12V IN
307-54	GND	32	GND

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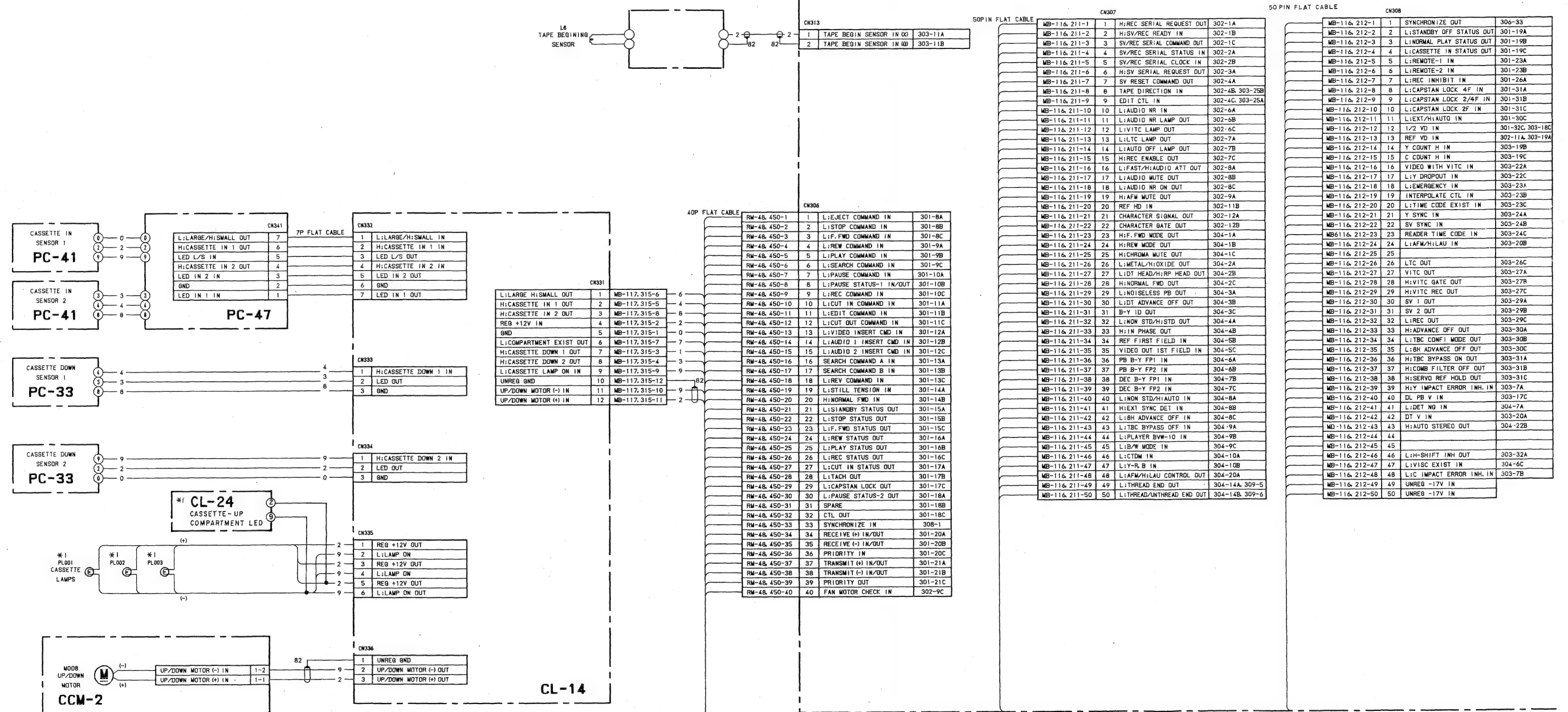
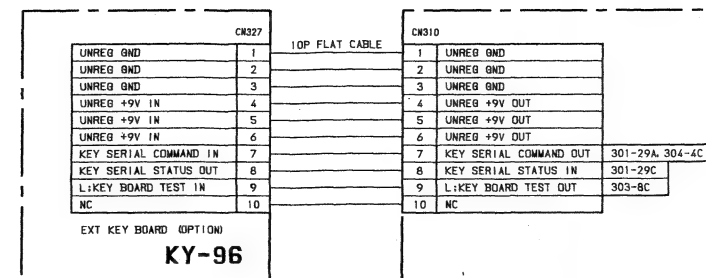
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BVW-75



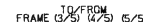


NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	CL-24 BOARD ADDED DELETED PL001, PL002, PL003	UC: S/N 15552 ~ J: S/N 12319 ~

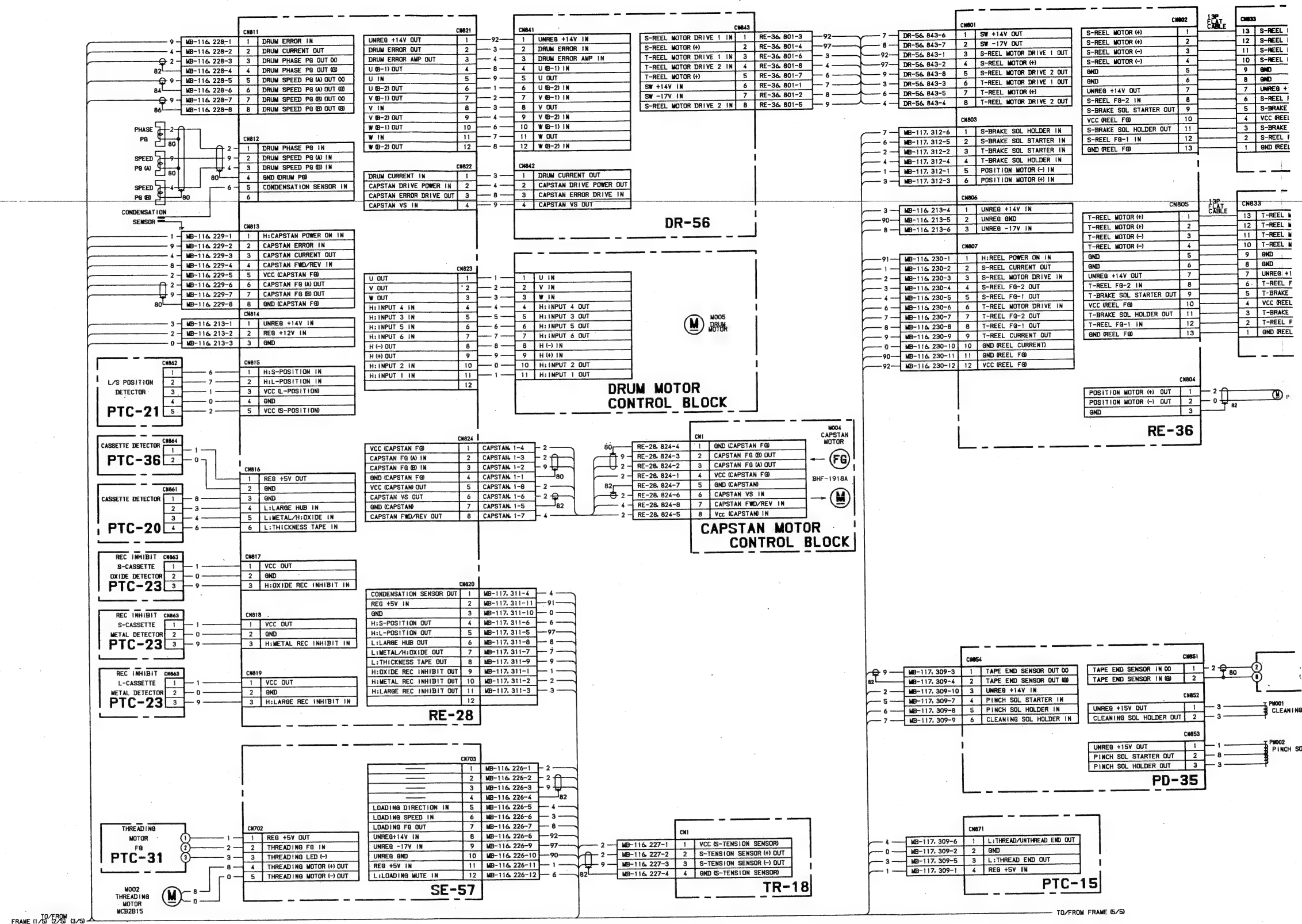


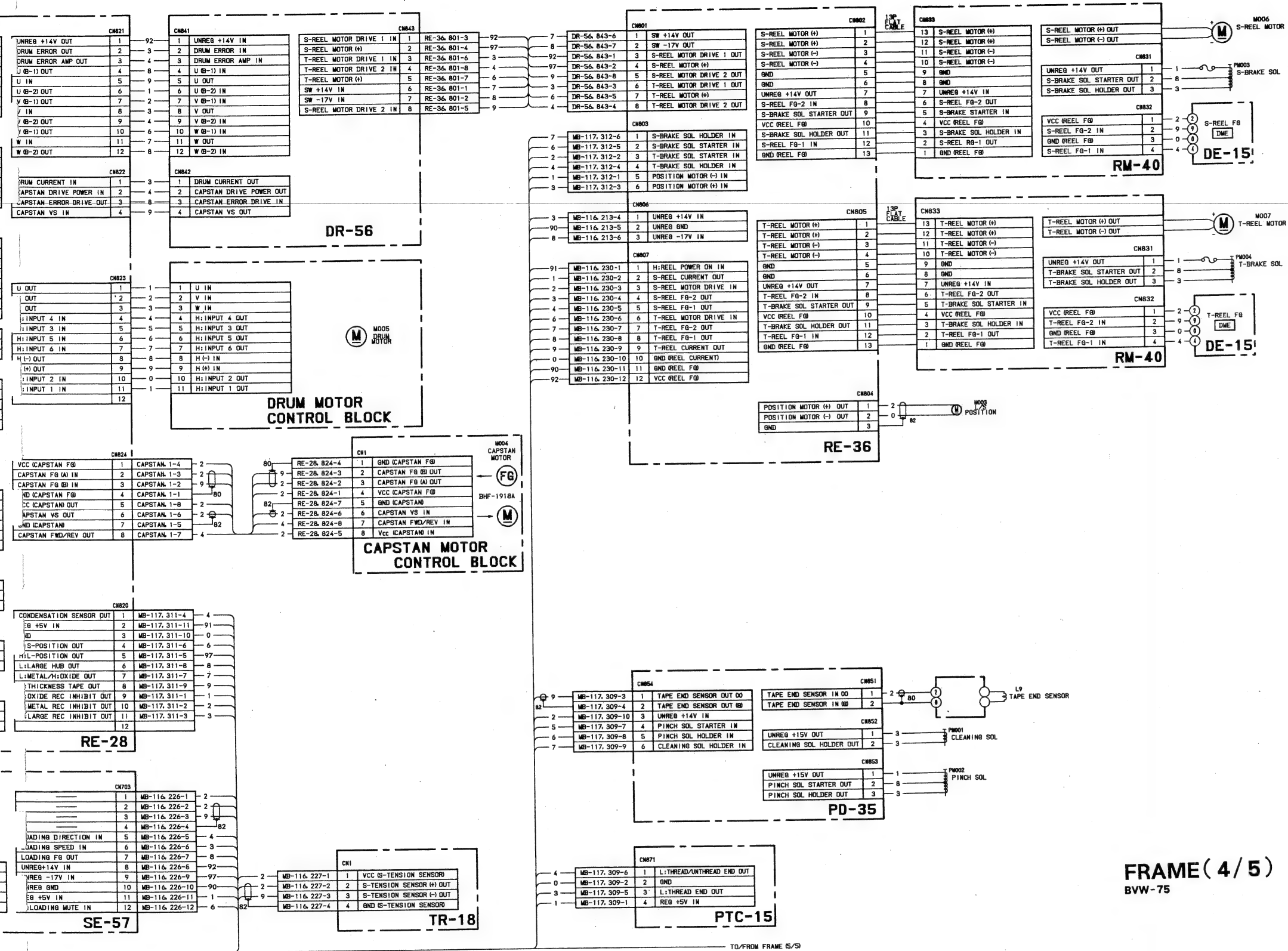
TO/FROM FRAME (1/5)

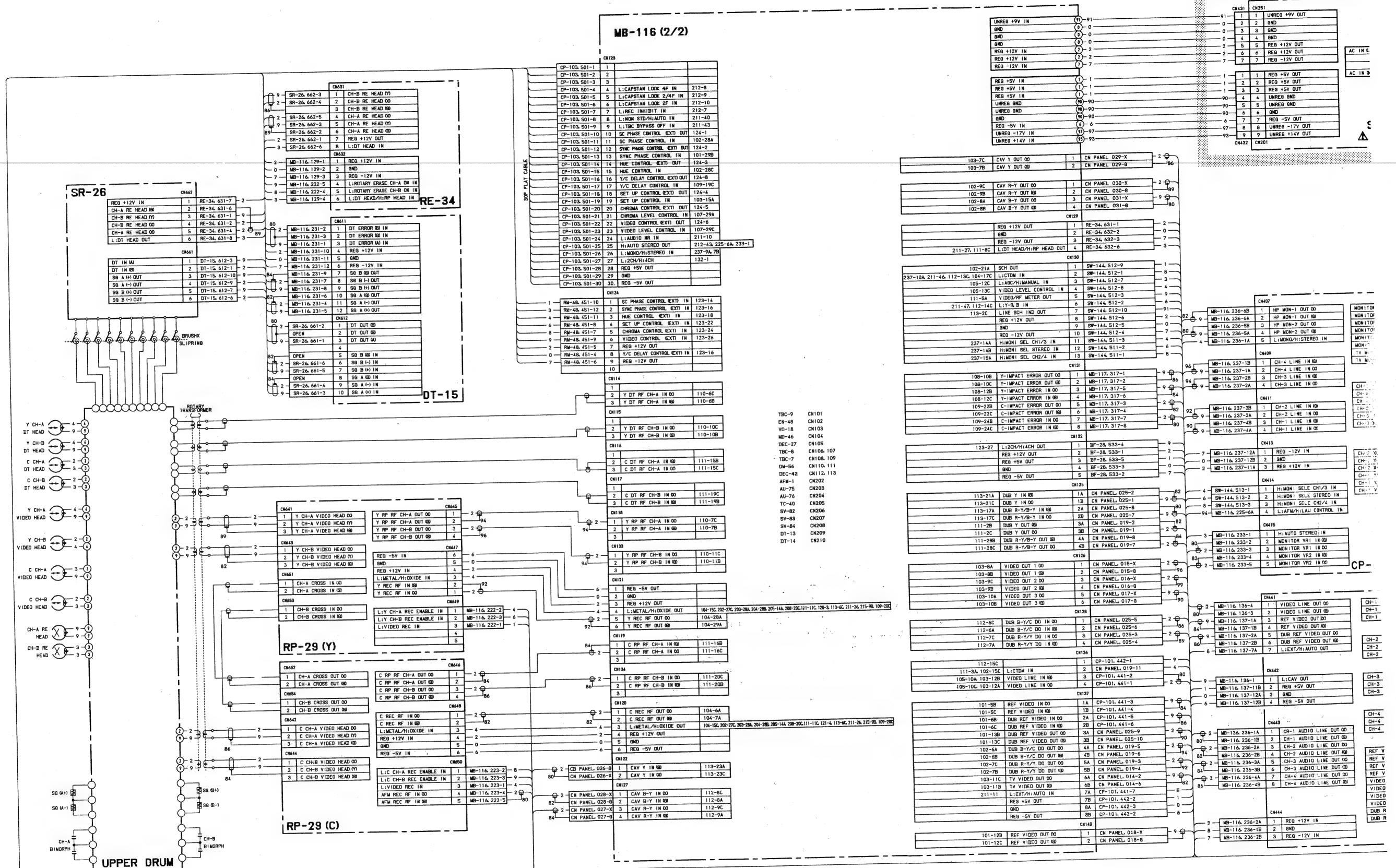




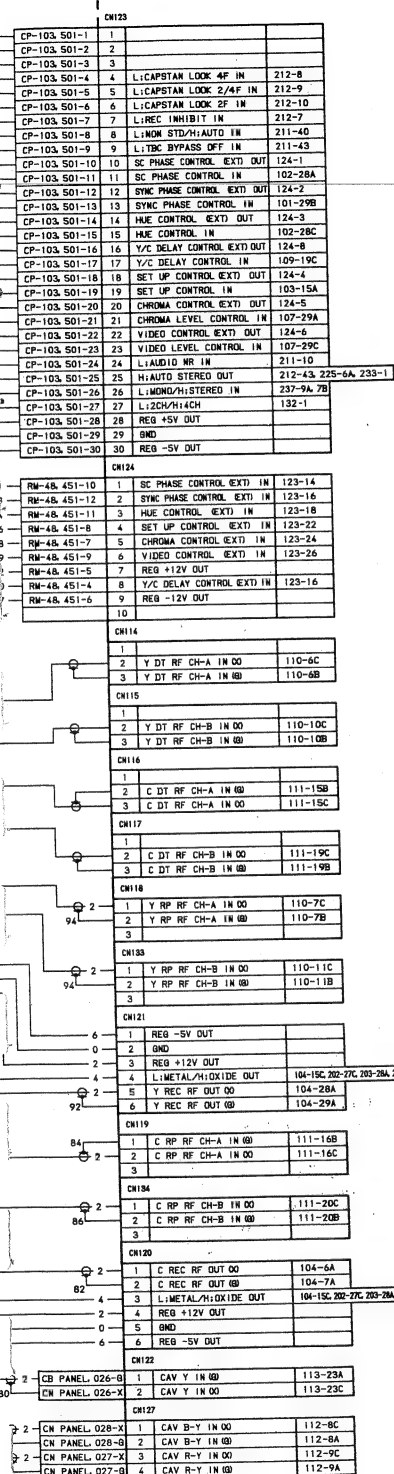
FRAME(3/ 5)
BVW-75



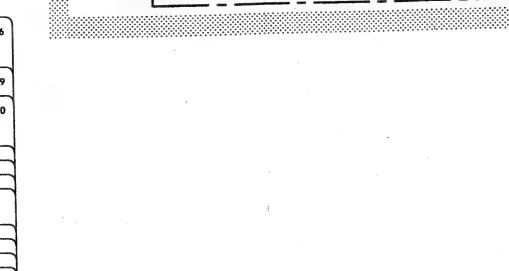
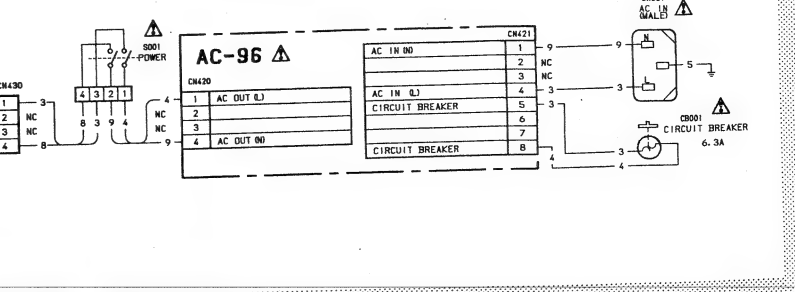
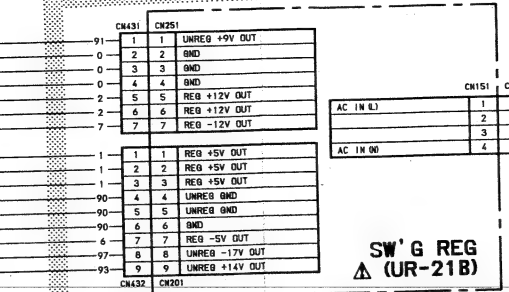
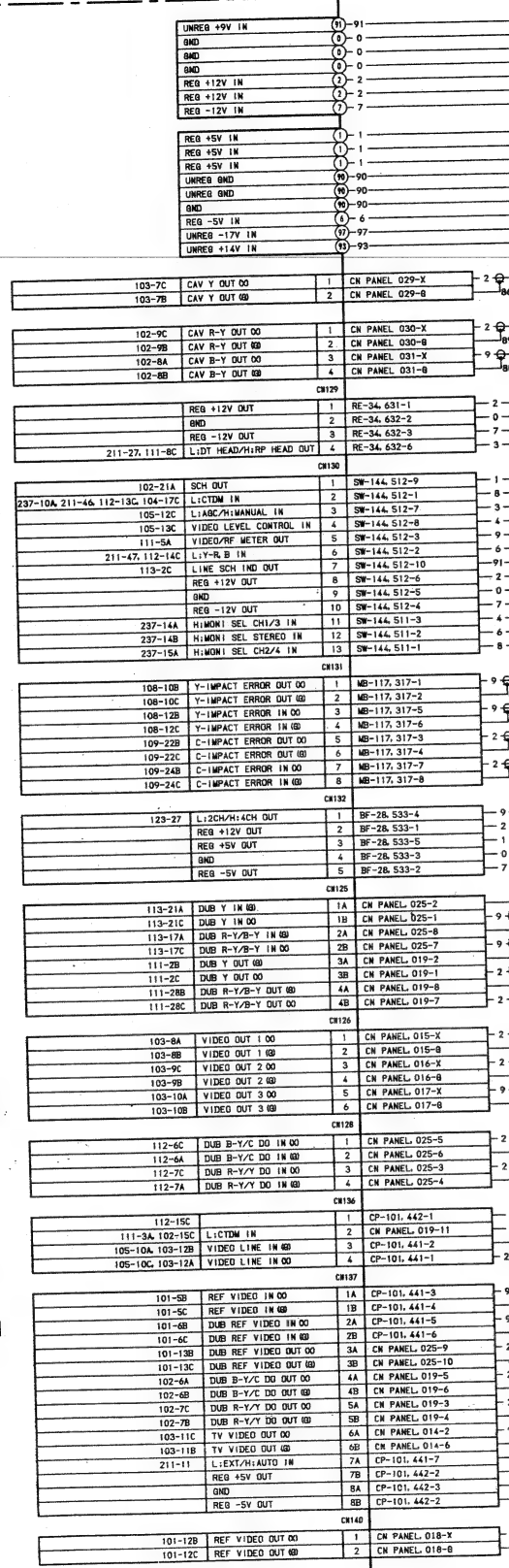




MB-116 (2/2)



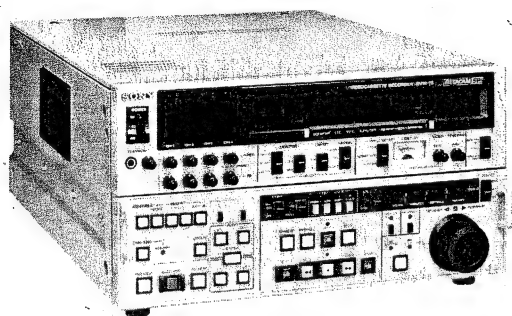
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EN-48 CN102
VO-18 CN103
MD-46 CN104
DEC-27 CN105
TBC-8 CN106, 107
DB-56 CN108, 109
CN110, 111
DEC-42 CN112, 113
AFW-1 CN102
AU-76 CN203
AU-76 CN204
TC-40 CN205
BY-82 CN206
BY-83 CN207
SV-84 CN208
DT-13 CN209
DT-14 CN210



SONY

VIDEOCASSETTE RECORDER

BVW-75



BETACAM SP™

MAINTENANCE MANUAL

Volume 2 6th Edition (Revised 11)

Serial No. 11104 and Higher (JAPAN)

Serial No. 13028 and Higher (USA CANADA)

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SECTION 17

PRINTED WIRING BOARDS

CIRCUIT CONFIGURATION

The circuit information is provided below.

System	Board	Circuit function
VIDEO	DEC-27	Y/C Separator
	DEC-42	C Decoder, C Compressor, Y Selector
	CF-36	Color Framing Detector
	DUS-273	R-Y Clamp Level Adj.
	MD-46	Y/C Modulator
	DUS-272Y *1	Y Non-Linear Preemphasis
	DUS-272C *1	C Non-Linear Preemphasis
	RP-29(Y)	Y REC/PB Amplifier
	RP-29(C)	C REC/PB Amplifier
	DM-56	Y/C Demodulator
	TBC-7	Time Base Corrector
	TBC-8	Time Base Corrector
	NR-25	Y Digital Noise Reduction
	TBC-9	Time Base Corrector
	EN-48	C Encoder
	VO-18	Video Output
	DUS-270	Squelch Buffer
	RE-34	Rotary Erase
	CP-103	Sub Control Panel
	CP-101	Video/Audio Input
AUDIO	BF-28	Audio Buffer/Level Detector
	VR-42	Audio REC/PB Volume
	AU-75	LNG Audio REC/PB Amplifier
	AU-76	LNG Audio Head Amplifier, Bias Oscillator

System	Board	Circuit function
AUDIO	AFM-1	AFM Audio Modulator/Demodulator
	FL-61	Low-Pass Filter
	CP-111	Audio Output
	CP-161A	Amplifier/Driver
	CP-113	Audio Balanced Amplifier
	HP-33	Headphones Amplifier/Jack
	VR-62	Headphones Level Volume
	DP-74	Audio Level Meter
	DP-73	DC-AC/DC Converter
	SW-144	Select Switch/Display
	DP-72	Video/RF Meter LED
	VR-61	Video/Tracking Control Volume
SERVO	SV-82	Microcomputer
	SV-83	Reel Servo
	SV-84	Capstan/Drum Servo
	RE-28	Capstan/Drum Motor Driver
	PTC-20	Cassette Detector (Tape Thickness, Reel Hub Diameter, Metal/Oxide)
	PTC-21	Reel Table Position Detector
	PTC-23	REC Inhibit Detector
	PTC-36	Cassette Detector (Tape Thickness, Reel Hub Diameter, Metal/Oxide)
	DR-56	Drum Error Amplifier, Capstan/Reel Motor Driver
	RE-36	Reel Motor Driver
	RM-40	Reel Motor
	DE-15	Reel Motor FG
	SE-57	Threading Motor Control
	PTC-31	Threading Motor FG

System	Board	Circuit function
SERVO	TR-18	Tape Tension Sensor
	DT-13	Dynamic Tracking
	DT-14	Dynamic Tracking
	DUS-282	Strain Gage Buffer
	DT-15	Dynamic Tracking
SYSTEM CONTROL	SY-61	System Control
	DUS-570	Fan Motor Error Detector
	SY-64	Time Code Reader/ Generator
	RM-48	Remote Connector
	PD-35	Pinch/Cleaning Solenoid
	PTC-15	Thread/Unthread End Sensor
	CL-14	Cassette-up Compartment
	CL-24 *2	Cassette-up Compartment LED
	PC-47	Large/Small Cassette Detector
	PC-33	Cassette Down Detector
	PC-41	Cassette In Detector
	OCM-2	Up/Down Motor
	HC-11	Hours Meter
	KY-96	Keyboard
	KY-107	Keyboard
	KY-108	Keyboard
	PTC-32	Search Dial
	DP-71	Time Counter Display
	PT-9	Power Transistor
	TC-40	LTC REC/PB Amplifier, Erase Driver
OTHERS	AC-96	Relay Board of AC Inlet
	C1	Switching Regulator
	C2	Switching Regulator
	M1	Switching Regulator
	M2	Switching Regulator
	MB-116	Mother Board
	MB-117	Mother Board
	EX-116	Extension Board
	EX-134	Extension Board
	EX-151	Extension Board

*1... Serial No. up to 14368 (UC)

Serial No. up to 11668 (J)

*2... Serial No. 15552 and higher (UC)

Serial No. 12319 and higher (J)

DEC-27 (1-622-543-13,14,15)

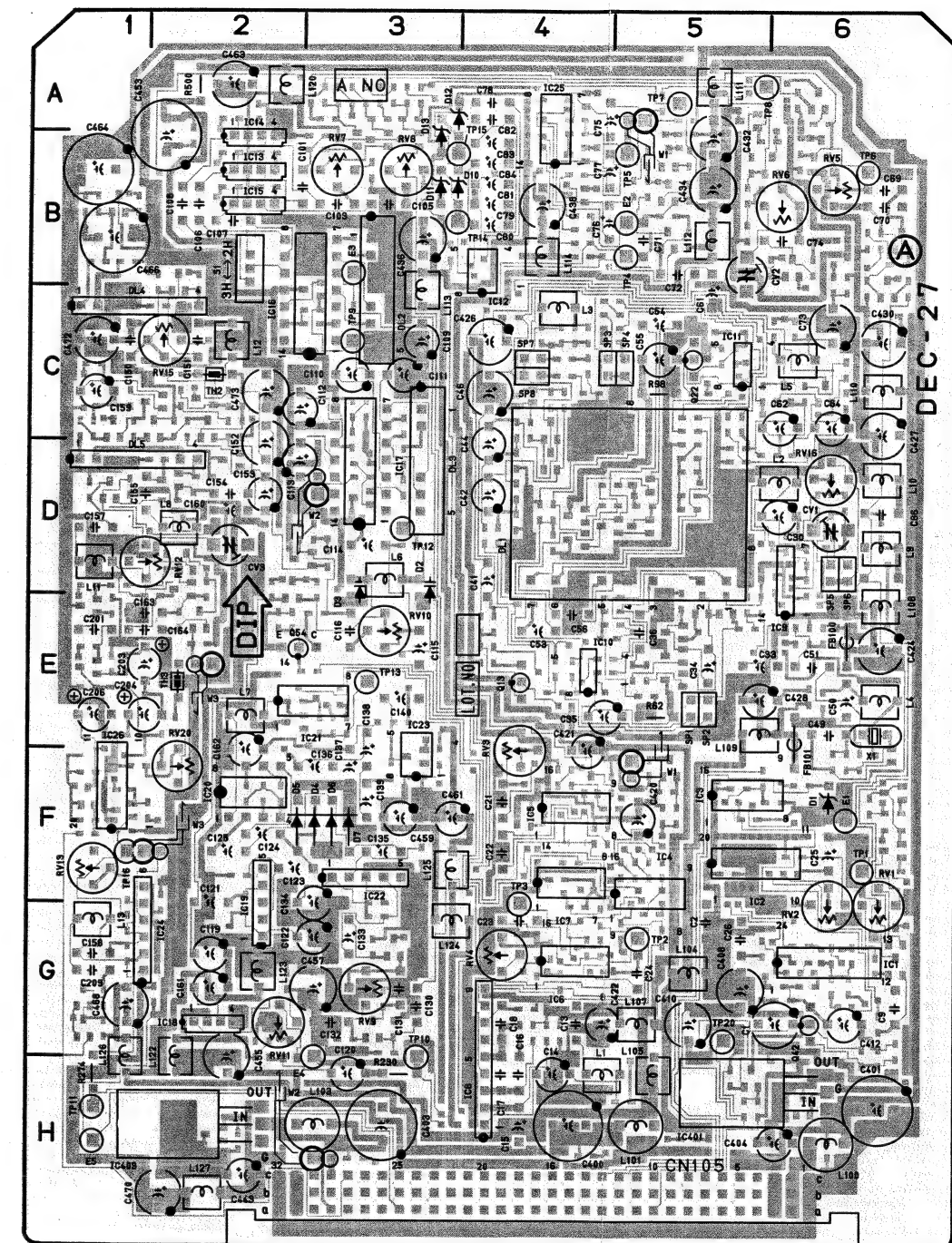
REF. NO.	TYPE	PIN NO.					
		REG +12V	+9V	+5V	GND	-5V	REG -12V
IC 1	CXA1040M		24		15		
IC 2	CXA1039M		1.11		6		
IC 3	TC4053BF		16		7.8		
IC 4	SN74LS221NS			16	8		
IC 5	SN74LS221NS			16	8		
IC 6	SN74LS221NS			16	8		
IC 7	TC74HC74F			14	7		
IC 8	TA7357AP		9		5		
IC 9	NJM1496M					14	
IC 10	μPC1663G2	6.7			3.2		
IC 11	μPC1663G2	6.7			3.2		
IC 12	TL082CPS			8		4	
IC 13	AN608P	2			4		
IC 14	AN608P	2			4		
IC 15	AN607P	2			4		
IC 16	CX22013	11			13		
IC 17	CXA1020P	8			9		
IC 18	AN607P	2			4		
IC 19	M5215L			3	5		
IC 20	SN16913P			8	4		
IC 21	TC4053BF			16	7.8		
IC 22	M5215L			3	5		
IC 23	TL082CPS			8			4
IC 24	VA UNIT			6		1	
IC 25	TC4066BFHB			14	7		
IC 401	RC78M09FA	*	*	*	2	*	*
IC 402	NJM78L05A	*	*	*	2	*	*
IC 403	RC79M05FA	*	*	*	*	*	*

* REFER TO SCHEMATIC

DEC-27 (1-622-543-13,14,15)

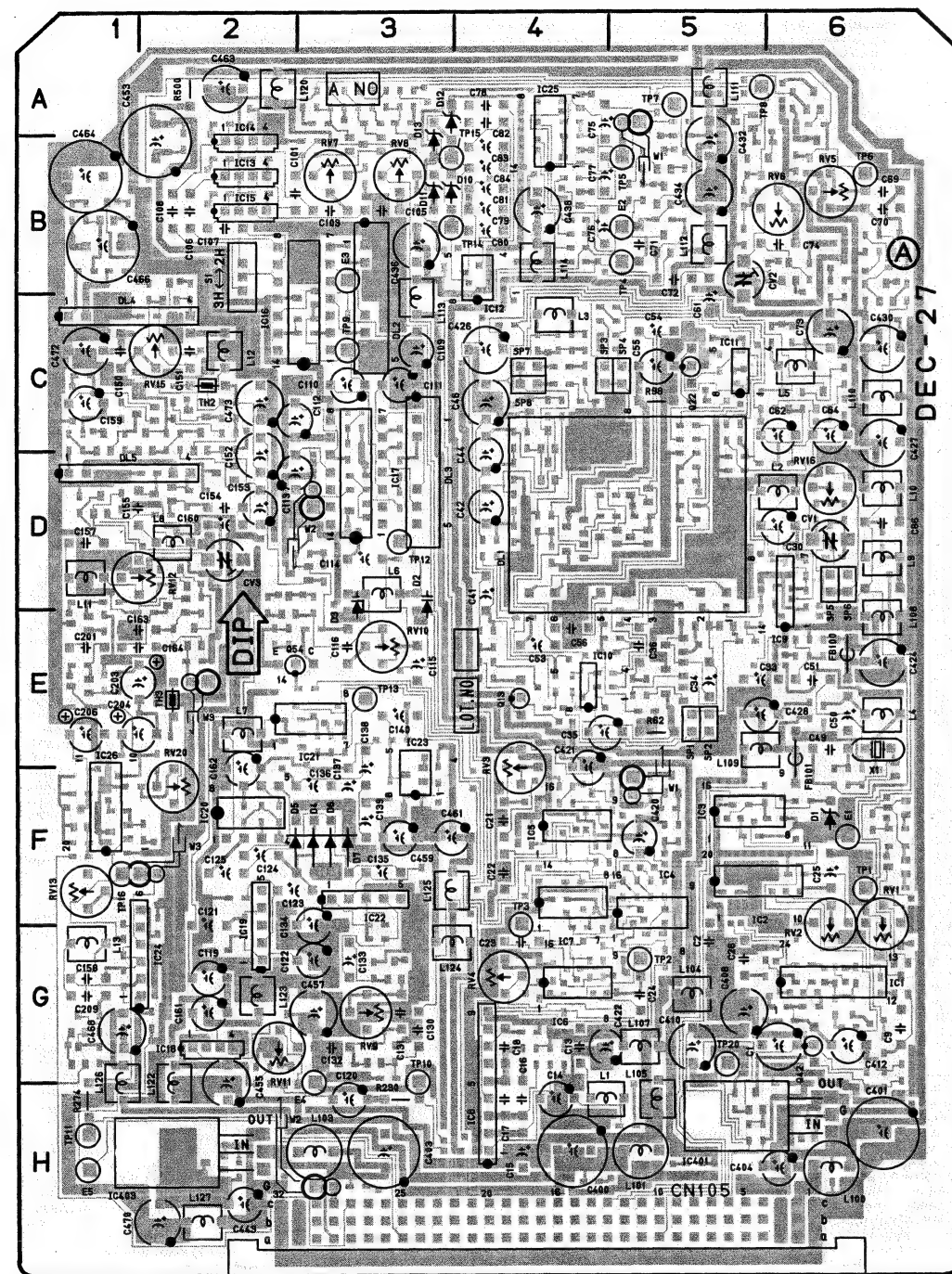
CB-105	H-3	IC5	F-4	Q17	D-4	Q68	D-2	TH2	C-2
CV1	D-6	IC6	G-4	Q18	D-4	Q69	D-3	TP1	F-6
CV2	B-5	IC7	F-4	Q19	D-4	Q70	C-1	TP2	G-4
CV3	D-2	IC8	G-4	Q20	D-4	Q71	C-1	TP3	F-4
		IC9	D-6	Q21	D-5	Q72	E-2	TP4	B-4
		IC10	E-4	Q22	C-5	Q73	E-2	TP5	B-4
D1	F-6	IC11	C-5	Q23	C-6	Q74	E-1	TP6	B-6
D2	D-3	IC12	B-4	Q24	C-6	Q75	E-1	TP7	C-4
D3	D-3	IC13	B-2	Q25	B-6	Q76	F-1	TP8	C-4
D4	F-3	IC14	B-2	Q26	B-6	Q77	F-1	TP9	C-3
D5	F-3	IC15	B-2	Q27	A-6	Q78	G-1	TP10	G-3
D6	F-3	IC16	C-2	Q28	A-6	Q79	G-1	TP11	H-1
D7	F-3	IC17	D-2	Q29	B-4			TP12	D-3
D9	D-2	IC18	G-2	Q30	B-4	RV1	F-6	TP13	E-3
D10	B-4	IC19	F-2	Q31	A-5	RV2	F-6	TP14	B-3
D11	B-3	IC20	F-2	Q32	B-6	RV3	E-5	TP15	B-3
D12	A-3	IC21	E-2	Q33	A-5	RV4	G-4	TP16	F-1
D13	A-3	IC22	F-3	Q34	A-5	RV5	B-6		
		IC23	F-3	Q35	A-4	RV6	B-5		
D401	H-5	IC24	F-1	Q36	B-4	RV7	B-3		
D403	H-2	IC25	A-4	Q37	B-4	RV8	B-3		
		IC26	F-1	Q41	C-4	RV9	G-3		
DL1	D-4	IC401	H-5	Q42	B-6	RV10	E-3		
DL2	C-2	IC403	H-2	Q50	B-3	RV11	G-2		
DL3	D-3			Q51	B-3	RV12	D-1		
DL4	C-1	Q1	G-5	Q52	B-3	RV13	F-1		
DL5	D-1	Q2	F-6	Q53	C-2	RV15	C-1		
		Q3	G-6	Q54	E-3	RV16	D-6		
E1	E-6	Q4	F-6	Q55	D-2				
E2	A-4	Q5	F-6	Q56	D-2	S1	B-2		
E3	C-2	Q6	F-4	Q57	G-2	S2	H-2		
E4	C-2	Q7	F-5	Q58	G-3				
E5	H-1	Q8	E-5	Q59	G-3	SP1	E-5		
		Q9	E-5	Q60	E-2	SP2	E-5		
FB100	D-6	Q10	E-5	Q61	B-1	SP3	C-4		
FB101	E-6	Q11	E-5	Q62	C-1	SP4	C-4		
		Q12	E-5	Q63	C-2	SP5	D-6		
IC1	G-6	Q13	E-3	Q64	C-2	SP6	D-6		
IC2	F-5	Q14	C-4	Q65	C-2	SP7	C-4		
IC3	F-5	Q15	C-4	Q66	D-2	SP8	C-4		
IC4	F-5	Q16	E-6	Q67	D-1				

DEC-27; Y/C SEPARATOR

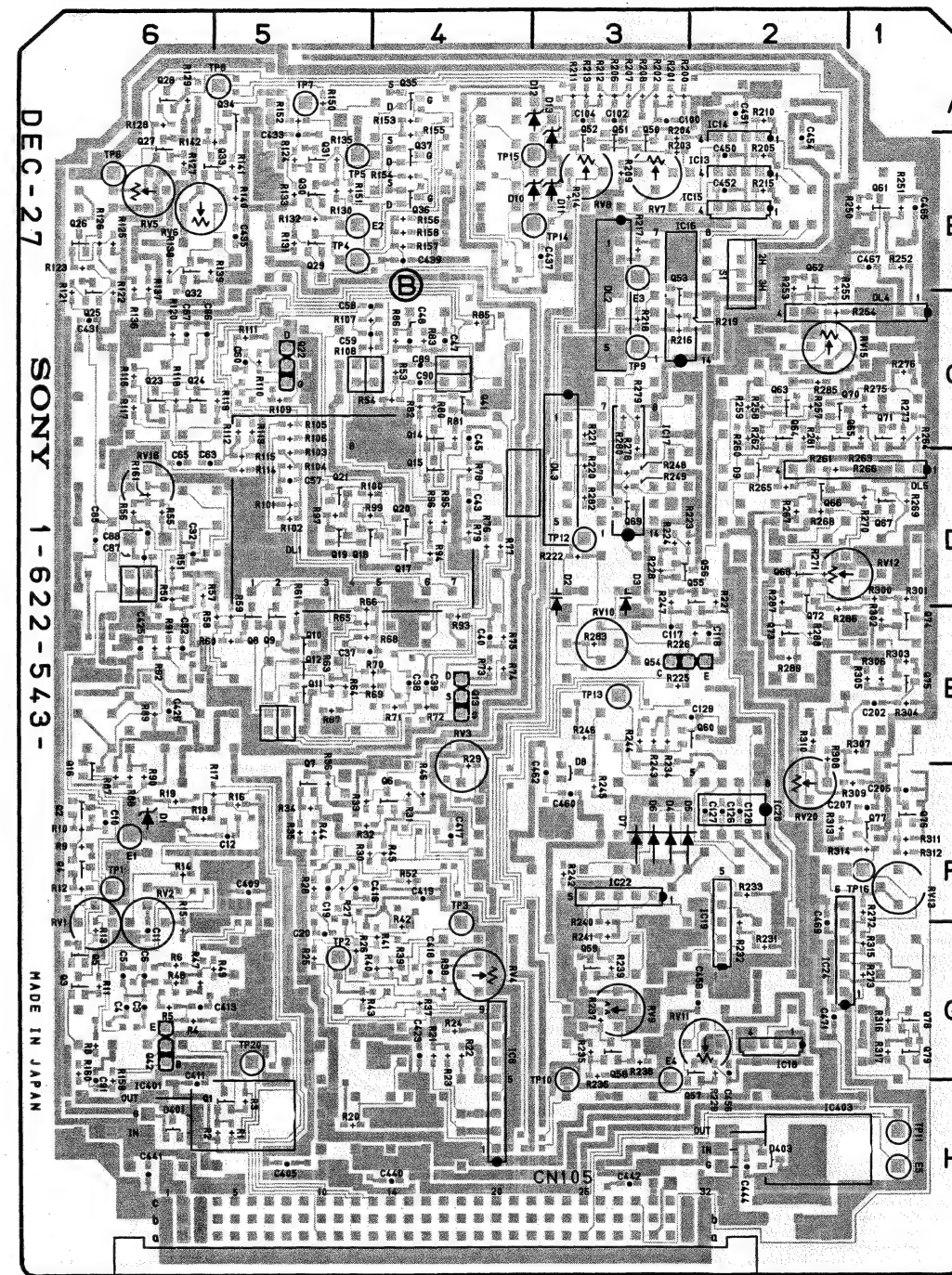
 UC ; S/N 10764 and higher
 J ; S/N 10326 and higher

 DEC-27—COMPONENT SIDE—
 1-622-543-13, 14, 15
 BVW-70
 BVW-75
 BVW-96

DEC-27; Y/C SEPARATOR

UC ; S/N 10764 and higher
J ; S/N 10326 and higher



DEC-27 — COMPONENT SIDE—
1-622-543-13, 14, 15
BVW-70
BVW-75
BVW-96



DEC-27 — SOLDERING SIDE—
1-622-543-13, 14, 15
BVW-70
BVW-75
BVW-96

DEC-42; C DECODER/COMPRESSOR, Y SELECTOR

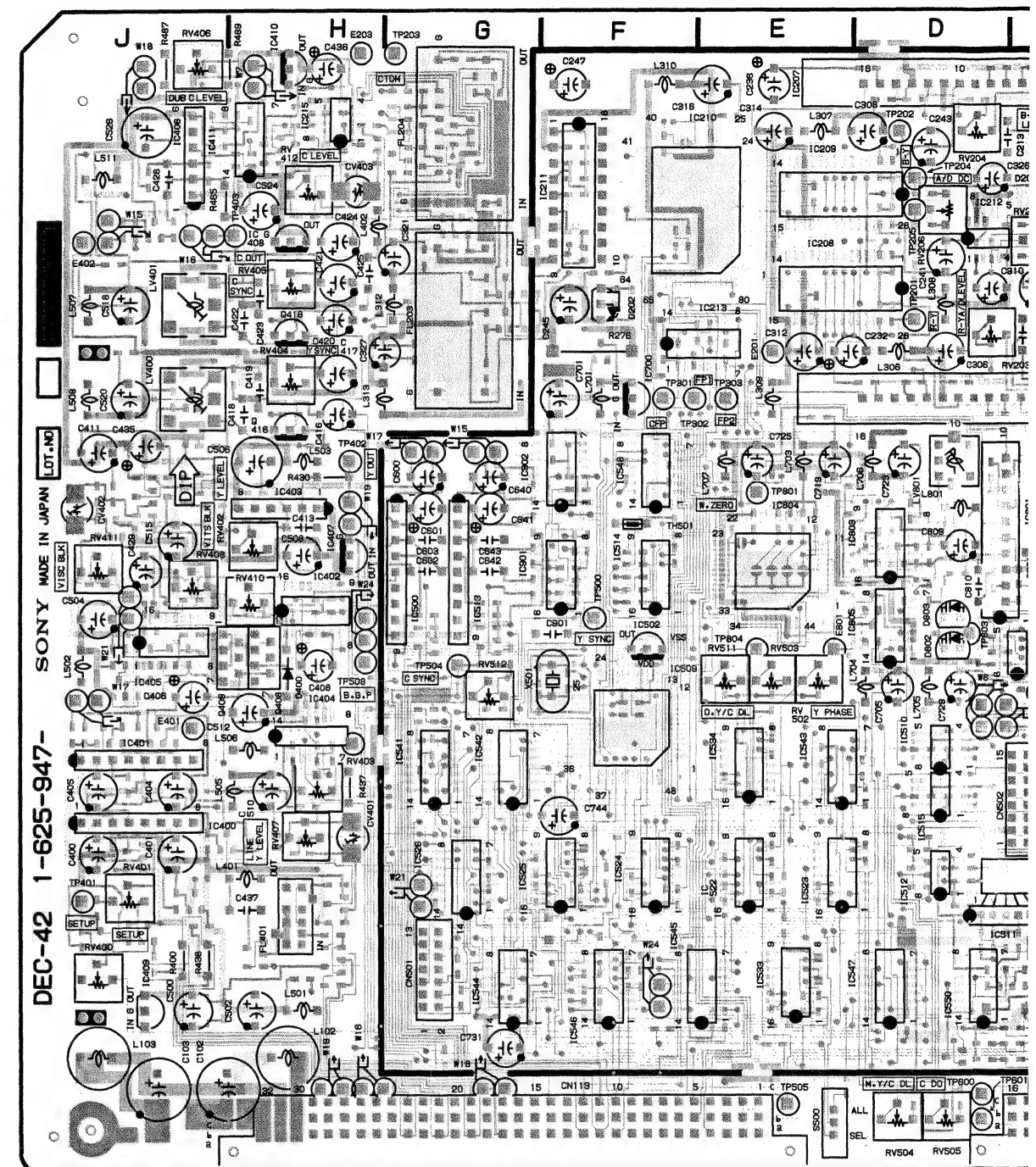
UC; Up to S/N 14821
J; Up to S/N 12028

REF. NO.	TYPE	PIN NO.					
		RGB +12V	+9V	+5V	GND	-5V	-12V
IC 1	NJM1496M			16	6.8		14
IC 2	TC4053BF						*
IC 3	NJM1496M						14
IC 4	TL084CNS			4		11	
IC 5	TL084CNS			4		11	
IC 6	PC311G2			8	1	4	
IC 7	TC4053BF			16	8	16	
IC 8	SN74LS163ANS			16	8	8	
IC 9	MC10H124F			9	16	8	
IC 10	MC10H131F				1	8	
IC 11	MC10H131F				1.16	8	
IC 100	NJM78M09A	*	*	*	*	*	*
IC 101	NJM78L09A	*	*	*	*	*	*
IC 200	TL607CPS	8			1		5
IC 201	CX20061	1			5		
IC 202	CX20061	1			5		
IC 203	TL607CPS	8			1		5
IC 204	CX20061	1			5		
IC 205	CX20061	1			5		
IC 206	SBX4002-01	2.11			4.13		5.14
IC 207	SBX4002-01	2.11			4.13		5.14
IC 208	CXA1096M			13.17	18.12.15		
IC 209	CXA1096M			13.17	18.12.15		
IC 210	CXD1151Q			33.73	11.12		
IC 211	MB40778P		*	7.8	1.9		
IC 212	TL082CPS	8		4.5		4	
IC 213	TC74HC			1			
IC 214	TL607CPS	8		1			
IC 215	TL607CPS	8		1			
IC 400	CX20061		1		5		
IC 401	CX20061		1		5		
IC 402	TC4053BF			16	8	7	*
IC 403	VA UNIT			6		11	
IC 404	TL084CNS			4		7	
IC 405	TC4052BF			16	6.8	7	
IC 406	VA UNIT			6		1	
IC 407	NJM79L05A	*	*	*	1	*	*
IC 408	NJM79L05A	*	*	*	1	*	*
IC 409	NJM78L09A	*	*	*	1	*	*
IC 410	NJM78L09A	*	*	*	1	*	*
IC 411	CX20158			12.14	5.7.10	1	
IC 500	TA7357AP		9	2	5		
IC 502	S-8053ALR			2	3		
IC 509	CX-7993A			19.43	6.31		
IC 510	MB4002PF	8			1	4	
IC 511	M5215L			3	5		
IC 512	PC311G2			8	1	4	
IC 513	TA7357AP		9		5		
IC 514	SN74LS221NS			16	8		
IC 515	MB4002PF	8			1	4	
IC 522	SN74LS221NS			16	8		
IC 523	SN74LS221NS			16	8		
IC 524	SN74LS221NS			16	8		
IC 525	SN74LS123NS			16	8		
IC 526	TC74HC74F			14	7		
IC 533	SN74LS221NS			16	8		
IC 534	SN74LS221NS			16	8		
IC 541	TC74HC32F			14	7		
IC 542	TC4030BF			14	7		
IC 543	TC74HC00F			14	7		
IC 544	TC74HC00F			14	7		
IC 545	TC74HC00F			14	7		
IC 546	TC74HC00F			14	7		
IC 547	TC74HC32F			14	7		
IC 548	TC74HC00F			14	7		
IC 550	TC74HC74F			14	7		
IC 801	BX1461		8		4	3	
IC 802	TL082CPS		8		4	4	
IC 803	MC10H125M			9	16	8	
IC 804	CXD1045AQ			17.39	6		
IC 901	SN74LS221NS			16	8		
IC 902	TC74HC74F			14	7		
IC 700	NJM78L09A		1		2		

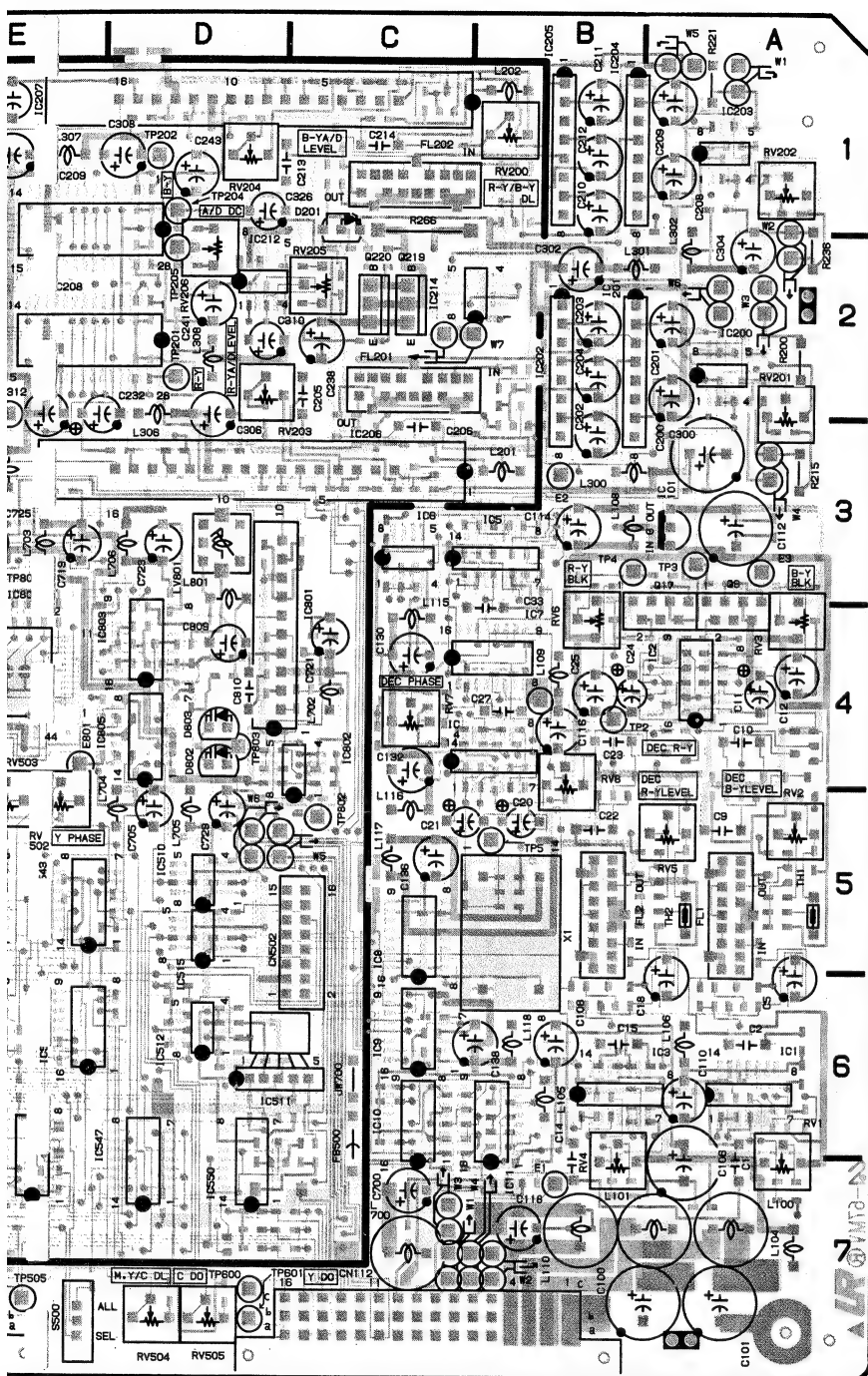
* REFER TO SCHEMATIC

DEC-42(1-625-947-11,12)

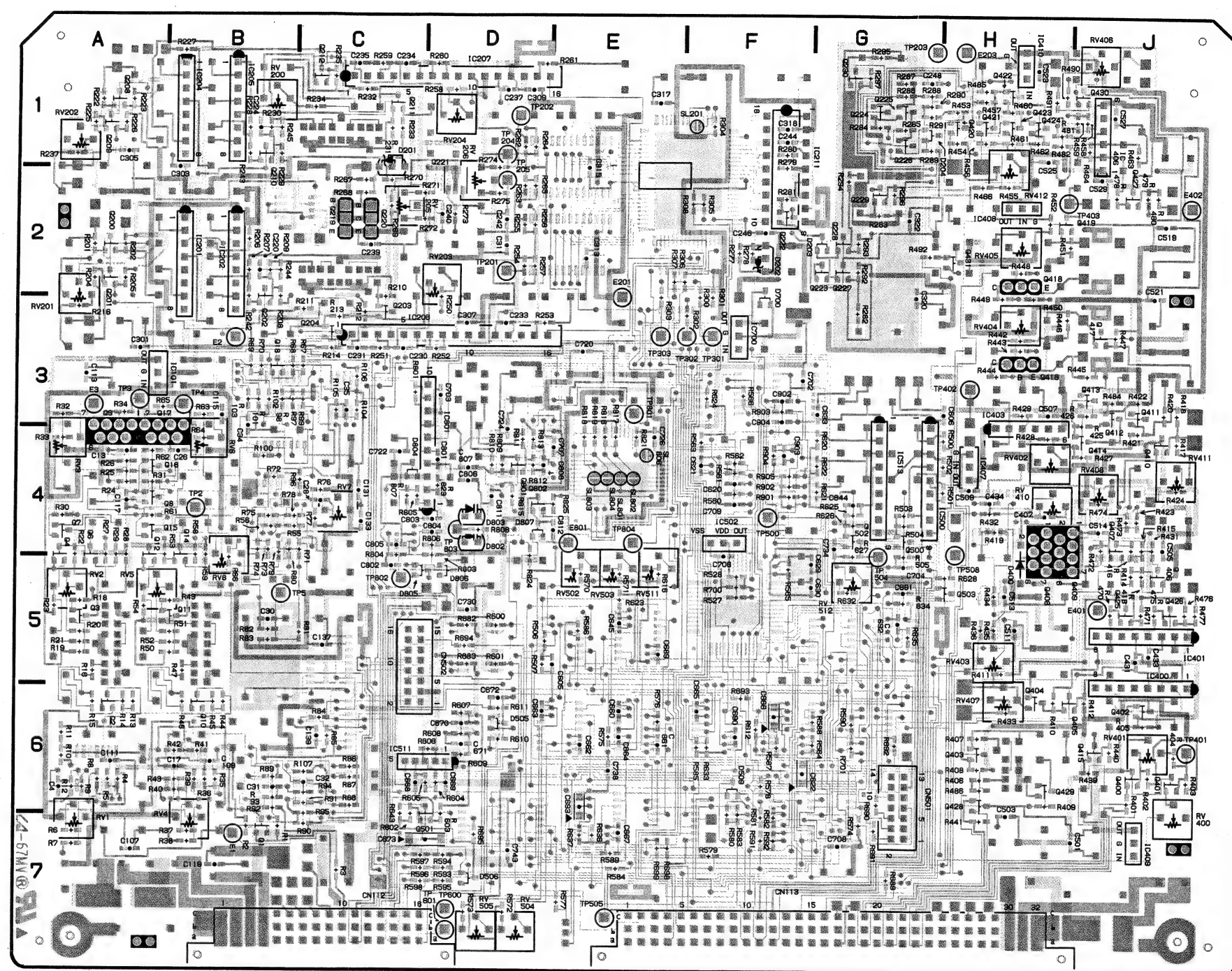
CN112	C-7	IC214	C-2	Q201	A-2	RV203	C-3
CN113	F-7	IC215	H-1	Q202	B-3	RV204	D-1
CN501	G-6	IC400	J-5	Q203	C-3	RV205	C-2
CN502	C-5	IC401	J-5	Q204	C-3	RV206	D-1
CV401	H-5	IC402	H-4	Q208	A-1	RV400	J-6
CV402	J-3	IC403	H-3	Q209	A-1	RV401	J-6
CV403	H-1	IC404	H-5	Q210	B-1	RV402	H-4
		IC405	J-4	Q211	C-1	RV403	H-5
		IC406	J-1	Q212	C-1	RV404	H-2
		IC407	H-4	Q219	C-2	RV405	H-2
D201	C-1	IC408	H-2	Q220	C-2	RV406	J-1
D202	F-2	IC409	J-7	Q221	D-1	RV407	H-5
D203	F-2	IC410	H-1	Q222	F-2	RV408	J-4
D204	G-1	IC411	J-1	Q223	G-2	RV410	H-4
D400	H-5	IC500	G-4	Q224	G-1	RV411	J-4
D505	D-6	IC502	F-4	Q225	G-1	RV412	H-1
D506	D-7	IC509	F-5	Q226	G-1	RV502	E-5
D509	F-6	IC510	D-5	Q227	G-2	RV503	E-5
D700	F-3	IC511	C-6	Q228	G-2	RV504	D-7
D802	D-4	IC512	D-6	Q229	G-2	RV505	D-7
D803	D-4	IC513	G-4	Q230	G-1	RV511	D-7
D804	C-4	IC514	F-4	Q400	J-6	RV512	D-5
D805	C-5	IC515	D-5	Q401	J-6		
D806	D-5	IC522	E-6	Q402	J-6	S500	E-7
D807	D-4	IC523	E-6	Q403	H-6		
E1	B-7	IC524	F-6	Q404	H-6	SL201	F-1
E2	B-3	IC525	F-6	Q405	J-6	SL801	E-4
E3	A-3	IC526	G-6	Q406	J-5	SL802	E-4
E201	E-2	IC533	E-6	Q407	J-4	SL803	E-4
E203	H-1	IC534	E-5	Q408	H-5	SL804	E-4
E401	J-5	IC541	G-5	Q409	J-5	SL806	E-4
E402	J-2	IC542	G-5	Q410	J-4		
E801	E-4	IC543	E-5	Q411	J-3	TH1	A-5
FB500	C-6	IC544	G-6	Q412	J-4	TH2	A-5
FL1	A-5	IC545	F-6	Q413	J-3	TH501	F-4
FL2	B-5	IC546	F-6	Q414	J-4		
FL201	C-2	IC547	E-6	Q415	J-6	TP2	B-4
FL202	C-1	IC548	F-3	Q416	H-3	TP3	A-3
FL203	G-2	IC550	D-7	Q417	J-3	TP4	B-3
FL204	G-1	IC700	F-3	Q418	H-2	TP5	B-5
FL401	H-6	IC801	C-4	Q419	H-2	TP201	D-2
IC1	A-6	IC802	C-4	Q420	H-1	TP202	D-1
IC2	A-4	IC803	D-4	Q421	H-1	TP203	G-1
IC3	A-6	IC804	E-3	Q422	H-1	TP204	D-1
IC4	C-4	IC805	D-4	Q423	H-1	TP205	D-2
IC5	B-3	IC901	G-4	Q424	H-1	TP301	F-3
IC6	C-3	IC902	F-3	Q425	J-5	TP302	F-3
IC7	B-4	LV400	J-3	Q426	J-6	TP303	E-3
IC8	C-5	LV401	J-2	Q427	J-2	TP401	J-6
IC9	C-6	LV801	D-3	Q428	H-6	TP402	H-3
IC10	C-6			Q429	H-6	TP403	H-2
IC11	B-6			Q430	J-1	TP500	F-4
IC101	A-3	Q1	B-7	Q431	H-2	TP504	G-4
IC200	A-2	Q2	A-6	Q500	G-4	TP505	E-7
IC201	B-2	Q3	A-5	Q501	D-7	TP508	H-5
IC202	B-2	Q4	A-4	Q502	G-4	TP600	D-7
IC203	A-1	Q5	A-4	Q503	H-5	TP601	D-7
IC204	B-1	Q6	A-4	Q801	D-4	TP801	E-3
IC205	B-1	Q7	A-4	Q802	D-4	TP802	C-5
IC206	C-3	Q8	A-4			TP803	D-4
IC207	D-1	Q9	A-3	RV1	A-6	TP804	F-4
IC208	E-2	Q10	B-6	RV2	A-5		
IC209	E-1	Q11	B-5	RV3	A-4	X1	B-5
IC210	E-1	Q12	A-4	RV4	B-7	X501	F-5
IC211	F-1	Q14	B-4	RV5	A-5		
IC212	D-2	Q15	A-4	RV6	B-4		
IC213	E-2	Q16	A-4	RV7	C-4		
		Q17	A-3	RV8	B-4		
		Q18	B-3	RV200	B-1		
		Q200	A-2	RV201	A-2		



V : 821
V : 1028



DEC-42—COMPONENT SIDE—
1-625-947-11, 12
BVW-70
BVW-75
BVW-96



DEC-42—SOLDERING SIDE—
1-625-947-11, 12
BVW-70
BVW-75
BVW-96

DEC-42; C DECODER/COMPRESSOR, Y SELECTOR

UC; S/N 14822 and higher
J; S/N 12029 and higher

REF. NO.	TYPE	PIN NO.					
		REG +12V	+9V	+5V	GND	-5V	-12V
IC 1	NJM1496M						14
IC 2	TC4053BF			16	6.8		*
IC 3	NJM1496M						14
IC 4	TL084CNS			4		11	
IC 5	TL084CNS			4		11	
IC 6	PC311G2			8	1	4	
IC 7	TC4053BF			16	8	16	
IC 8	SN74LS163ANS			16	8		
IC 9	MC10H124F			9	16	8	
IC 10	MC10H131F				1	8	
IC 11	MC10H113F				1.16	8	
IC 100	NJM78M09A	*	*	*	*	*	*
IC 101	NJM78L09A	*	*	*	*	*	*
IC 200	TL607CPS	8			1		5
IC 201	CX20061	1			5		
IC 202	CX20061	8			5		5
IC 203	TL607CPS	1			5		
IC 204	CX20061	1			5		
IC 205	CX20061	1			5		
IC 206	SBX4002-01	2.11			4.13		5.14
IC 207	SBX4002-01	2.11			4.13		5.14
IC 208	CXA1096M			13.17	18.12.15		
IC 209	CXA1096M			13.17	18.12.15		
IC 210	CXD1151Q			33.73	11.12		
IC 211	MB40778P		*	7.8	1.9		
IC 212	TL082CPS	8				4	
IC 213	TC74HC			4.5	1		
IC 214	TL607CPS	8					
IC 400	CX20061		1		5		
IC 401	CX20061		1		5		
IC 402	TC4053BF			16	8	7	*
IC 403	VA UNIT			6		7	
IC 404	TL084CNS			4		11	
IC 405	TC4052BF			16	6.8	7	
IC 406	VA UNIT			6		1	*
IC 407	NJM79L05A	*	*	*	1	*	*
IC 408	NJM79L05A	*	*	*	1	*	*
IC 409	NJM78L09A	*	*	*	1	*	*
IC 410	NJM78L09A	*	*	*	1	*	*
IC 411	CX20158			12.14	5.7.10	1	*
IC 500	TA7357AP		9		5		
IC 502	S-8053ALR			2	3		
IC 509	CX-7993A			19.43	6.31		
IC 510	MB4002PF	8			1	4	
IC 511	M5215L			3	5		
IC 512	PC311G2			8	1	4	
IC 513	TA7357AP		9		5		
IC 514	SN74LS221NS			16	8		
IC 515	MB4002PF	8			1	4	
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IC 523	SN74LS221NS			16	8		
IC 524	SN74LS221NS			16	8		
IC 525	SN74LS123NS			16	8		
IC 526	TC74HC74F			14	7		
IC 533	SN74LS221NS			16	8		
IC 534	SN74LS221NS			16	8		
IC 541	TC74HC32F			14	7		
IC 542	TC4030BF			14	7		
IC 543	TC74HC00F			14	7		
IC 544	TC74HC00F			14	7		
IC 545	TC74HC00F			14	7		
IC 546	TC74HC08F			14	7		
IC 547	TC74HC32F			14	7		
IC 548	TC74HC00F			14	7		
IC 550	TC74HC74F			14	7		
IC 801	BX1461	8			4	3	
IC 802	TL082CPS	8				4	
IC 803	MC10H125M			9	16	8	
IC 804	CXD1045AQ			17.39	6		
IC 901	SN74LS221NS			16	8		
IC 902	TC74HC74F			14	7		
IC 700	NJM78L09A	1			2		

* REFER TO SCHEMATIC

DEC-42(1-625-947-13)

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CN501 G-7
CN502 D-5

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CV402 J-4
CV403 H-2

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D804 D-4
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D807 E-4

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FB500 C-7
FB701 C-4

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FL401 H-6

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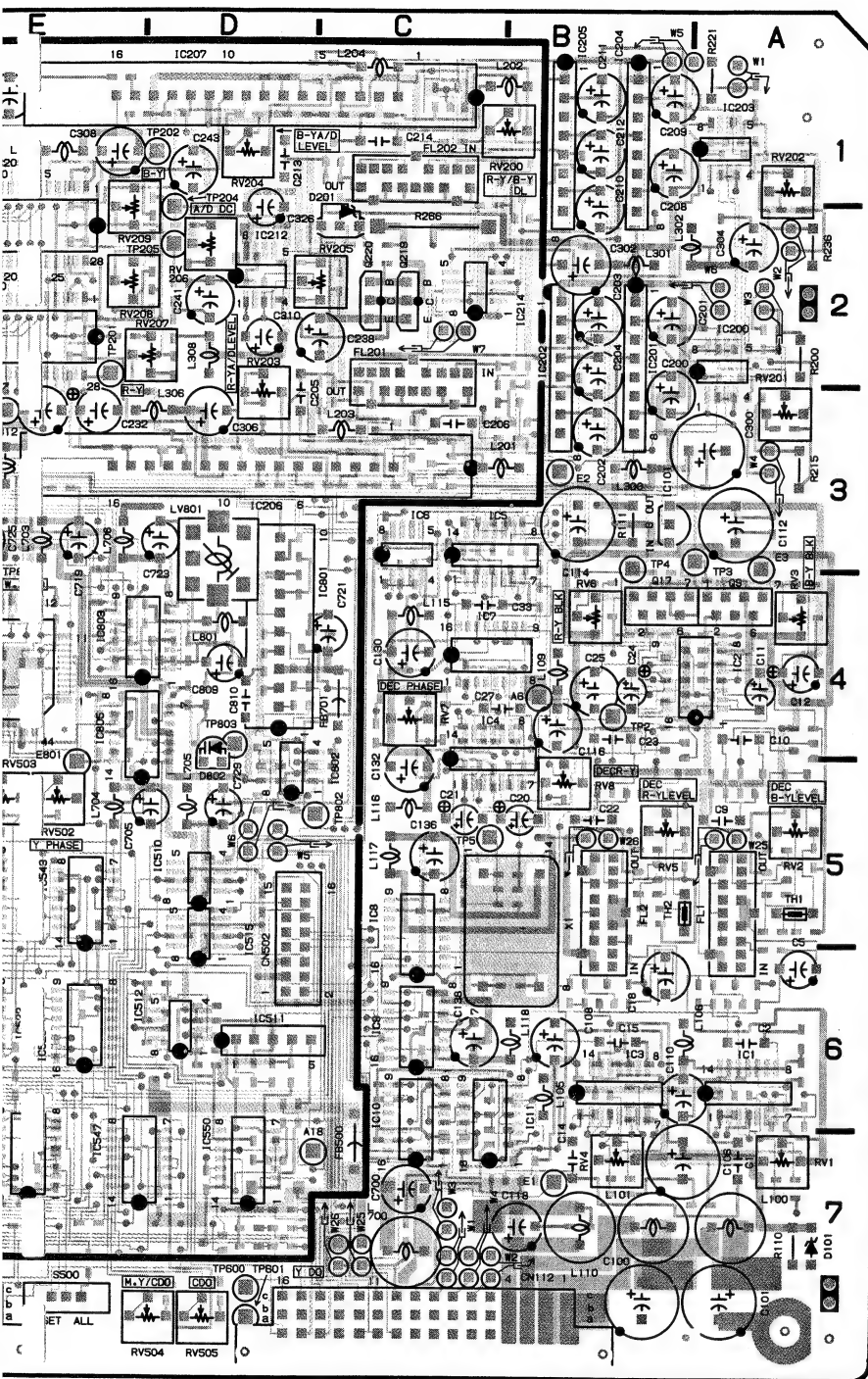
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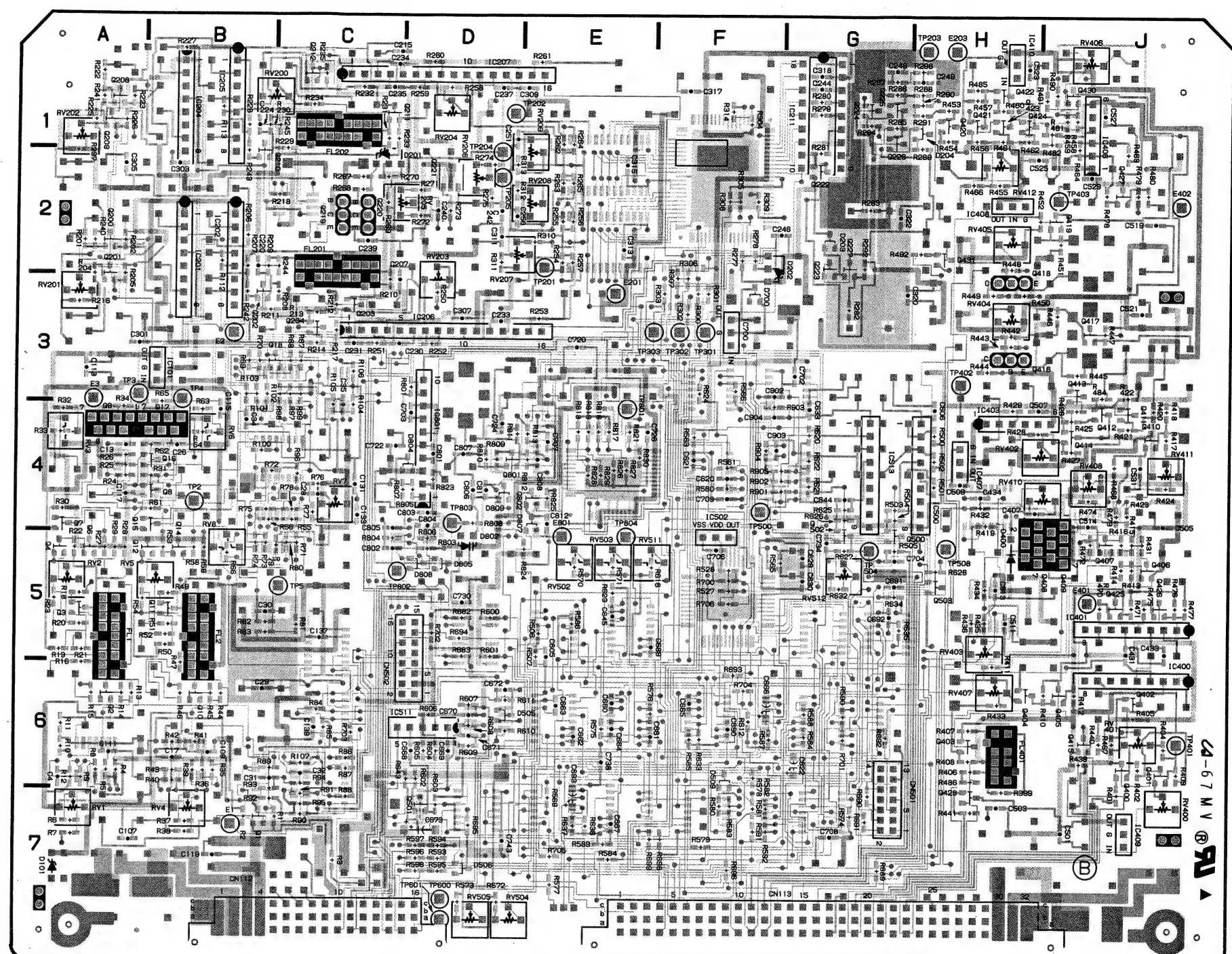
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IC213 E-3

2 and higher
9 and higher



DEC-42—COMPONENT SIDE—
1-625-947-13
BVW-70
BVW-75
BVW-96

17-11 (b)



DEC-42—SOLDERING SIDE—
1-625-947-13
BVW-70
BVW-75
BVW-96

17-12 (b)

RV1
(C) (A)
(B)
DUS-273
MADE IN JAPAN

(A) R1 RV1 (C)
+
(B) R2
+
DUS-273
1-627-651-11

DUS-273 -SOLDERING SIDE-
1-627-651-11
BVW-70
BVW-75
BVW-96

MD-46; Y/C MODULATOR
DUS-272Y/272C; Y/C NON-LINER PREEMPHASIS

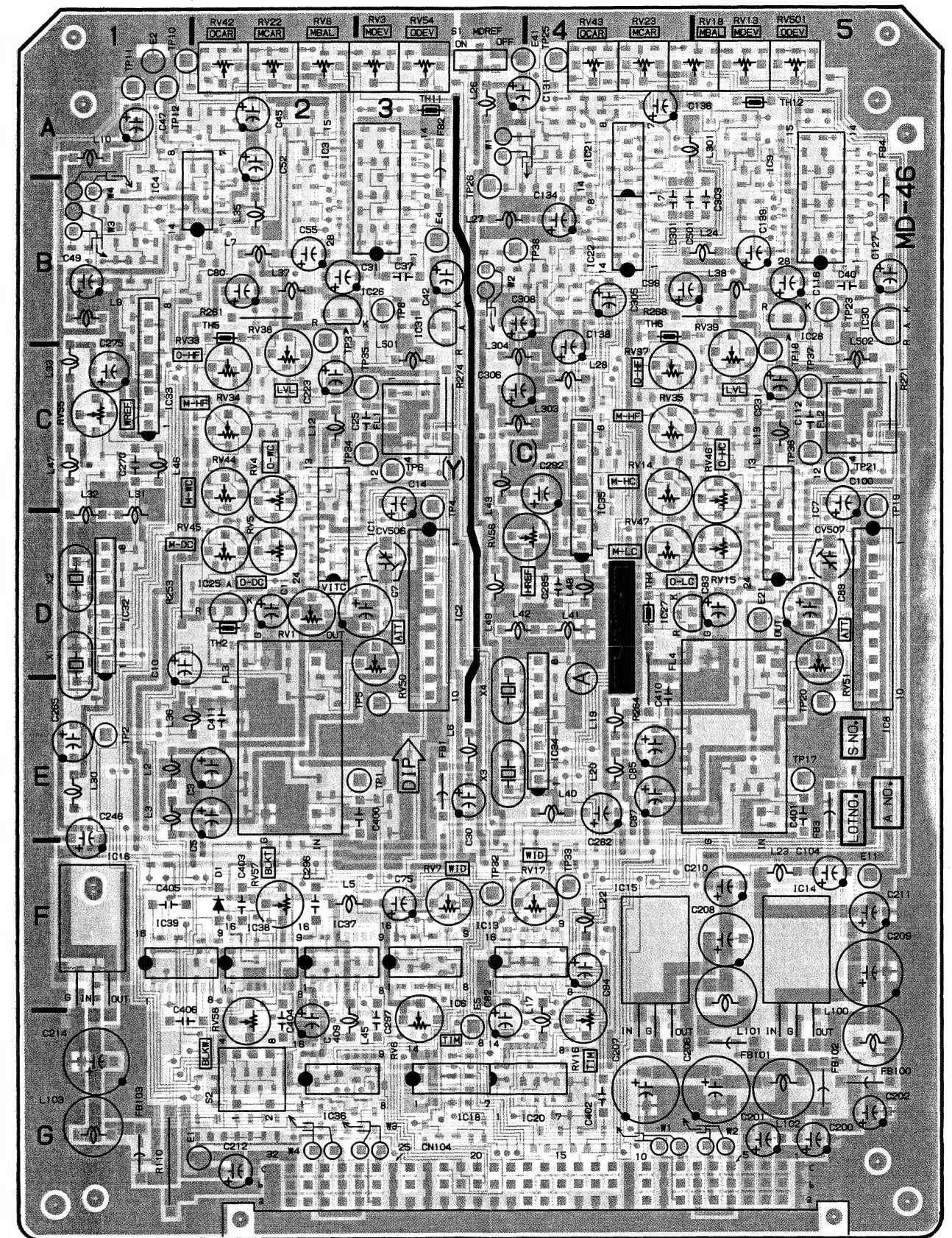
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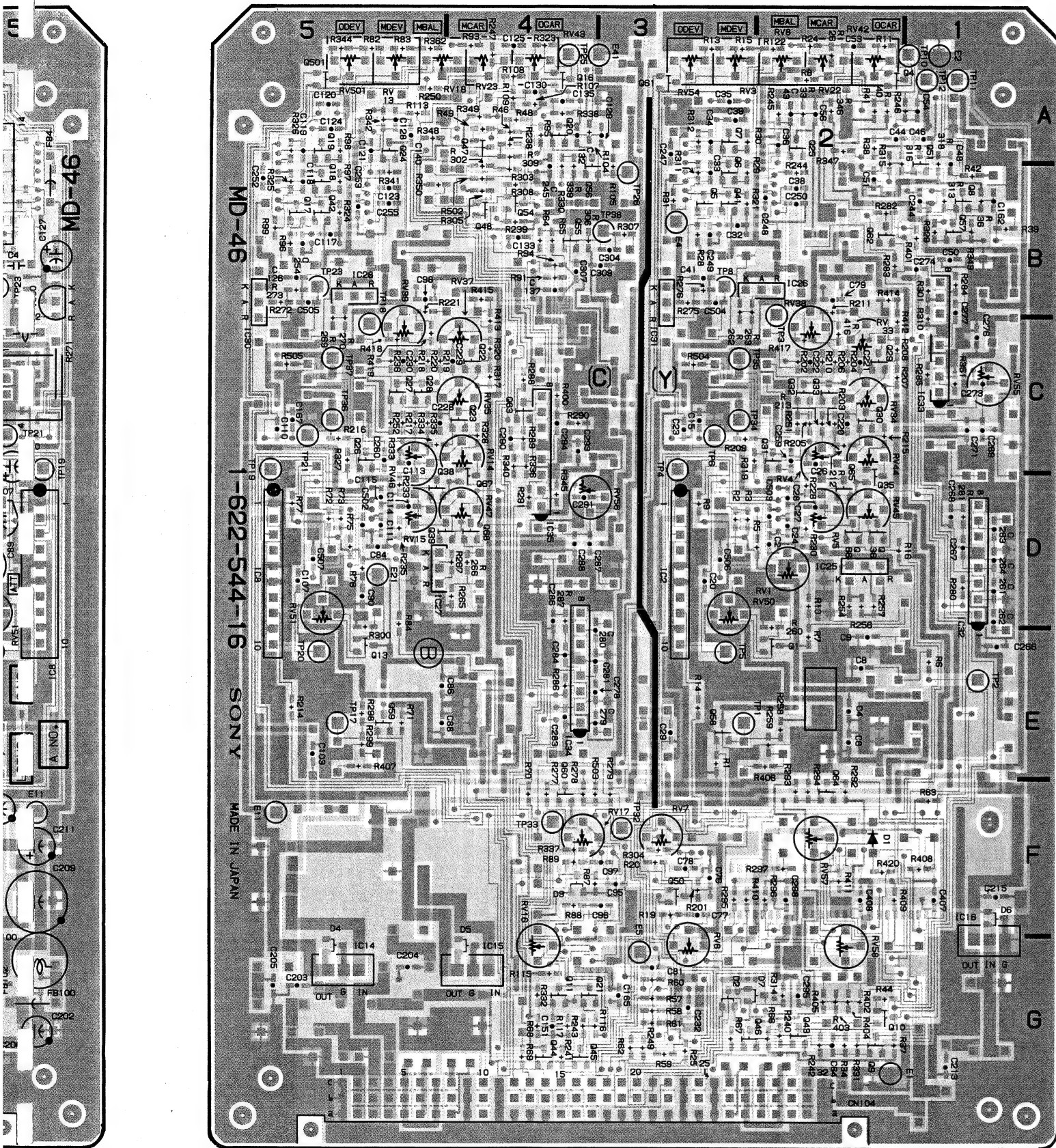
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		+12V	+9V	+5V	GND	-5V
IC 1	CXA1040M	24			15	
IC 3	CXA1041M	15.17	13		19	
IC 4	CX20158			12	5.7.10	1
IC 6	SN74LS221NS			16	8	
IC 7	CXA1040M	24			15	
IC 9	CXA1041M	15.17	13		19	
IC 13	SN74LS221NS			16	8	
IC 14	NJM78M09A	*	*	*	*	*
IC 15	NJM78M05A	*	*	*	*	*
IC 16	μPC7905H	*	*	*	*	*
IC 18	TC74HC00F			14	7	
IC 20	TC74HC08F			14	7	
IC 21	CX20158			12	5.7.10	1
IC 22	CX20158			12	5.7.10	1
IC 25	TL431CLPB	*	*	*	*	*
IC 26	TL431CLPB	*	*	*	*	*
IC 27	TL431CLPB	*	*	*	*	*
IC 28	TL431CLPB	*	*	*	*	*
IC 30	TL431CLPB	*	*	*	*	*
IC 31	TL431CLPB	*	*	*	*	*
IC 32	CX20061	1			5	
IC 33	CX20061	1			5	
IC 34	CX20061	1			5	
IC 35	CX20061	1			5	
IC 36	MC14557BF			16	8	
IC 37	SN74LS221NS			16	8	
IC 38	SN74LS221NS			16	8	
IC 39	SN74LS221NS			16	8	

* REFER TO SCHEMATIC

MD-46(1-622-544-14, 15, 16)

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CV507	D-5	Q24	A-5	RV57	F-2
		Q25	A-2	RV58	G-2
		Q26	C-5	RV501	A-5
D1	F-2	Q27	C-5		
D2	G-3	Q28	C-5	S1	A-3
D4	G-5	Q29	C-2	S2	G-2
D5	G-4	Q30	C-3		
D6	F-1	Q31	C-2	TH2	D-2
D7	G-2	Q32	C-2	TH4	D-4
D9	F-4	Q33	C-2	TH5	B-2
		Q35	D-2	TH6	B-4
E1	G-2	Q36	D-2		
E2	A-1	Q38	D-5	TP1	E-3
E4	B-3	Q39	D-4	TP2	E-1
E5	G-3	Q41	B-3	TP3	B-2
E11	F-5	Q42	B-5	TP4	C-3
E21	D-5	Q43	G-2	TP5	E-3
E41	A-3	Q44	G-4	TP6	C-3
		Q45	G-4	TP8	B-3
FL1	C-3	Q46	G-2	TP10	A-1
FL2	C-5	Q47	A-4	TP11	A-1
FL3	E-2	Q48	B-4	TP12	A-1
FL4	E-5	Q50	F-3	TP17	E-5
		Q51	A-1	TP18	C-5
IC1	D-2	Q54	B-4	TP19	C-5
IC2	D-3	Q55	B-4	TP20	E-5
IC3	B-3	Q56	B-4	TP21	C-5
IC4	B-2	Q57	B-1	TP23	B-5
IC6	F-3	Q58	E-3	TP25	A-4
IC7	D-5	Q59	E-5	TP26	B-3
IC8	D-5	Q60	F-4	TP32	F-3
IC9	B-5	Q61	A-3	TP33	F-4
IC13	F-4	Q62	B-2	TP34	C-3
IC14	F-5	Q63	C-4	TP35	C-3
IC15	F-4	Q64	F-2	TP36	C-5
IC16	F-1	Q65	D-2	TP37	C-5
IC18	G-3	Q66	D-2	TP38	B-3
IC20	G-4	Q67	D-4		
IC21	A-4	Q68	D-4	X1	D-1
IC22	B-4	Q501	A-5	X2	D-1
IC25	D-2			X3	E-3
IC26	B-2	RV1	D-2	X4	E-3
IC27	D-4	RV3	A-3		
IC28	B-5	RV4	C-2		
IC30	B-5	RV5	D-2		
IC31	B-3	RV6	G-3		
IC32	D-1	RV7	F-3		
IC33	C-1	RV8	A-2		
IC34	E-4	RV13	A-5		
IC35	C-4	RV14	C-4		
IC36	G-2	RV15	D-5		
IC37	F-2	RV16	G-4		
IC38	F-2	RV17	F-4		
IC39	F-1	RV18	A-5		
		RV22	A-2		
Q1	E-2	RV23	A-4		
Q3	A-3	RV33	C-2		
Q4	A-2	RV34	C-2		
Q5	B-3	RV35	C-4		
Q6	B-3	RV37	C-4		
Q7	A-3	RV38	C-2		
Q8	B-1	RV39	C-5		
Q9	G-2	RV42	A-2		
Q10	G-2	RV43	A-4		
Q11	G-4	RV44	C-2		
Q13	E-5	RV45	D-2		
Q16	A-4	RV46	C-5		
Q17	B-5	RV47	D-4		
Q18	B-5	RV50	D-3		
Q19	A-5	RV51	D-5		
Q20	A-4	RV54	A-3		
Q21	G-4				



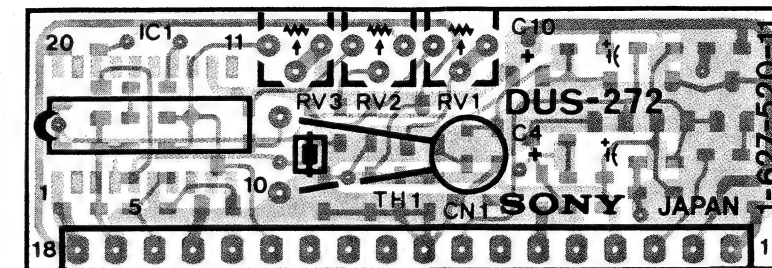


ONENT SIDE—

MD-46—SOLDERING SIDE—
1-622-544-14, 15, 16
BVW-70
BVW-75
BVW-96

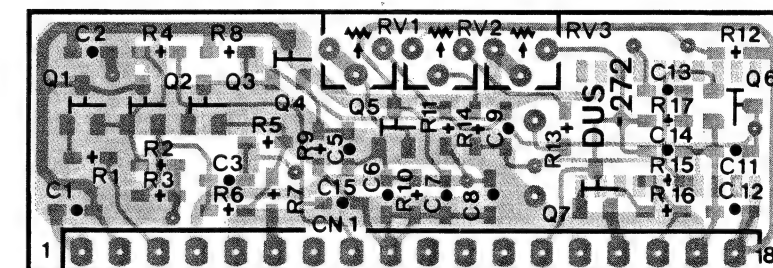
17-23

UC; Up to S/N 14368
J; Up to S/N 11668



DUS-272Y / 272C -COMPONENT SIDE-

1-627-520-11
BVW-70
BVW-75
BVW-96



DUS-272Y / 272C -SOLDERING SIDE-

1-627-520-11
BVW-70
BVW-75
BVW-96

17-24

RP-29(Y) (1-622-551-13,14)

REF. NO	TYPE	PIN NO.		
		+12V	GND	-5V
IC 1	BH1806	2	5	6
IC 2	BH1806	2	5	6
IC 3	BH1802	*	6	
IC 4	BH1802	*	6	
IC 5	CX20061	*	5	
IC 6	CX20061	*	5	
IC 7	TC4009UBP	1.16	8	
IC 8	TC4009UBP	1.16	8	

* REFER TO SCHEMATIC

RP-29(C) (1-622-551-23,24)

REF. NO	TYPE	PIN NO.		
		+12V	GND	-5V
IC 101	BH1806	2	5	6
IC 102	BH1806	2	5	6
IC 103	BH1802	*	6	
IC 104	BH1802	*	6	
IC 105	CX20061	*	5	
IC 106	CX20061	*	5	
IC 107	TC4009UBP	1.16	8	
IC 108	TC4009UBP	1.16	8	

* REFER TO SCHEMATIC

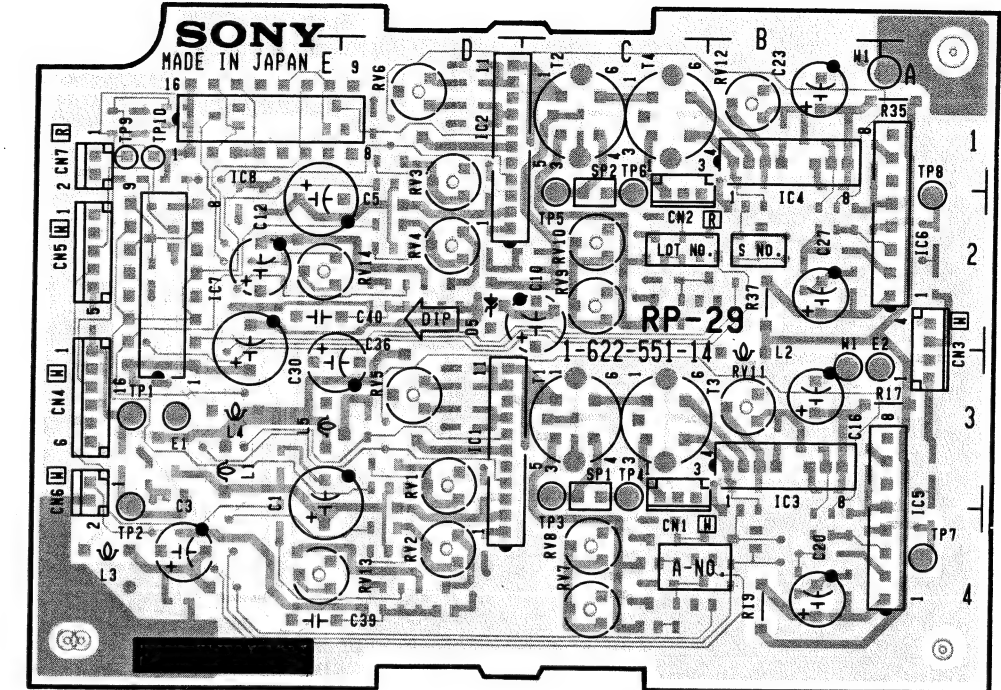
RP-29 (C) ; C REC/PB AMPLIFIER
RP-29 (Y) ; Y REC/PB AMPLIFIER

RP-29(Y) (1-622-551-13,14)

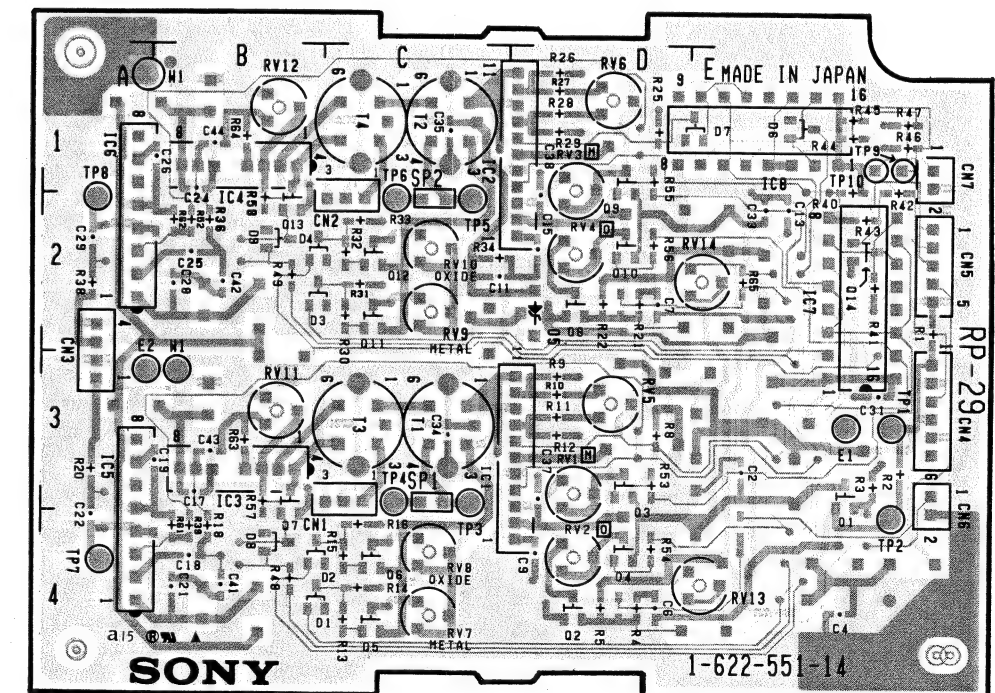
CN1	C-2	SP1	C-3
CN2	C-2	SP2	C-1
CN3	A-3		
CN4	E-3	SS1	C-3
CN5	E-2	SS2	C-1
CN6	E-4		
CN7	E-1	T1	C-3
		T2	C-1
D1	B-4	T3	B-3
D2	C-4	T4	C-1
D3	B-2		
D4	B-2	TP1	E-3
D5	D-2	TP2	E-4
D6	E-1	TP3	C-4
D7	E-1	TP4	C-3
D8	B-4	TP5	C-2
D9	B-2	TP6	C-1
		TP7	A-4
E1	E-3	TP8	A-1
E2	A-2	TP9	E-1
		TP10	E-1
IC1	D-3		
IC2	D-1		
IC3	B-3		
IC4	B-2		
IC5	A-3		
IC6	A-2		
IC7	E-2		
IC8	E-1		
Q1	E-4		
Q2	D-4		
Q3	D-3		
Q4	D-4		
Q5	C-4		
Q6	C-4		
Q7	B-4		
Q8	D-2		
Q9	D-2		
Q10	D-2		
Q11	C-2		
Q12	C-2		
Q13	B-2		
Q14	E-2		
RV1	D-3		
RV2	D-4		
RV3	D-1		
RV4	D-2		
RV5	D-3		
RV6	D-1		
RV7	C-4		
RV8	C-4		
RV9	C-2		
RV10	C-2		
RV11	B-3		
RV12	B-1		
RV13	D-4		
RV14	D-2		

RP-29(C) (1-622-551-23,24)

CN101	C-3	SP101	C-3
CN102	C-2	SP102	C-1
CN103	A-2		
CN104	E-3	SS101	C-3
CN105	E-2	SS102	C-1
CN106	E-3		
CN107	E-1	T101	C-3
		T102	C-1
D101	B-4	T103	C-3
D102	B-4	T104	C-1
D103	B-2		
D104	B-2	TP101	E-3
D105	D-2	TP102	E-4
D106	E-1	TP103	C-3
D107	E-1	TP104	C-3
D108	B-4	TP105	C-2
D109	B-2	TP106	C-1
		TP107	A-4
E101	E-3	TP108	A-1
E102	A-2	TP109	E-1
		TP110	E-1
IC101	D-3		
IC102	D-1		
IC103	B-3		
IC104	B-1		
IC105	A-3		
IC106	A-2		
IC107	E-2		
IC108	E-1		
Q101	E-4		
Q102	D-4		
Q103	D-3		
Q104	D-4		
Q105	C-4		
Q106	C-4		
Q107	B-4		
Q108	D-2		
Q109	D-2		
Q110	D-2		
Q111	C-2		
Q112	C-2		
Q113	B-2		
Q114	E-2		
RV101	D-3		
RV102	D-4		
RV103	D-1		
RV104	D-2		
RV105	D-3		
RV106	D-1		
RV107	C-4		
RV108	C-4		
RV109	C-2		
RV110	C-2		
RV111	B-3		
RV112	B-1		
RV114	D-2		



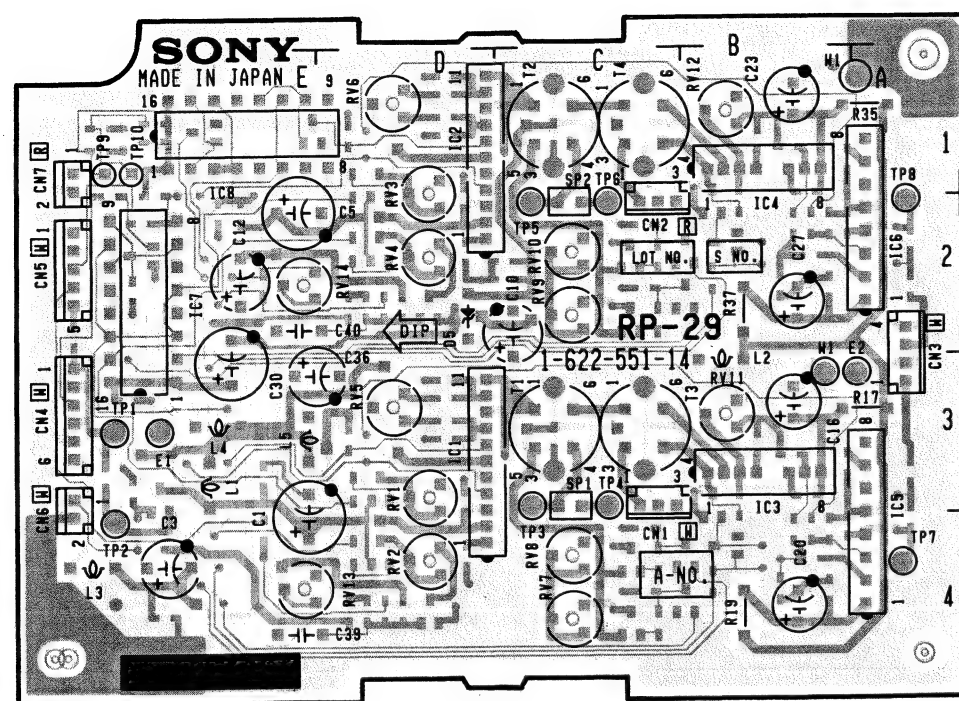
RP-29 (Y)—COMPONENT SIDE—
1-622-551-13, 14
BVW-70
BVW-75
BVW-96



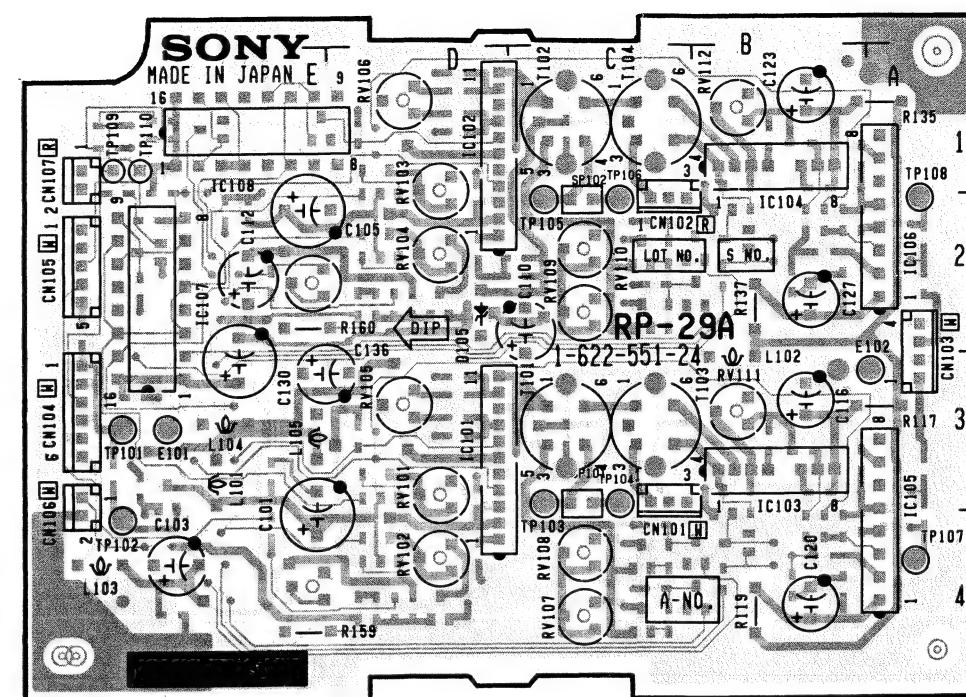
RP-29 (Y)—SOLDERING SIDE—
1-622-551-13, 14
BVW-70
BVW-75
BVW-96

RP-29 (C) ; C REC/PB AMPLIFIER
RP-29 (Y) ; Y REC/PB AMPLIFIER

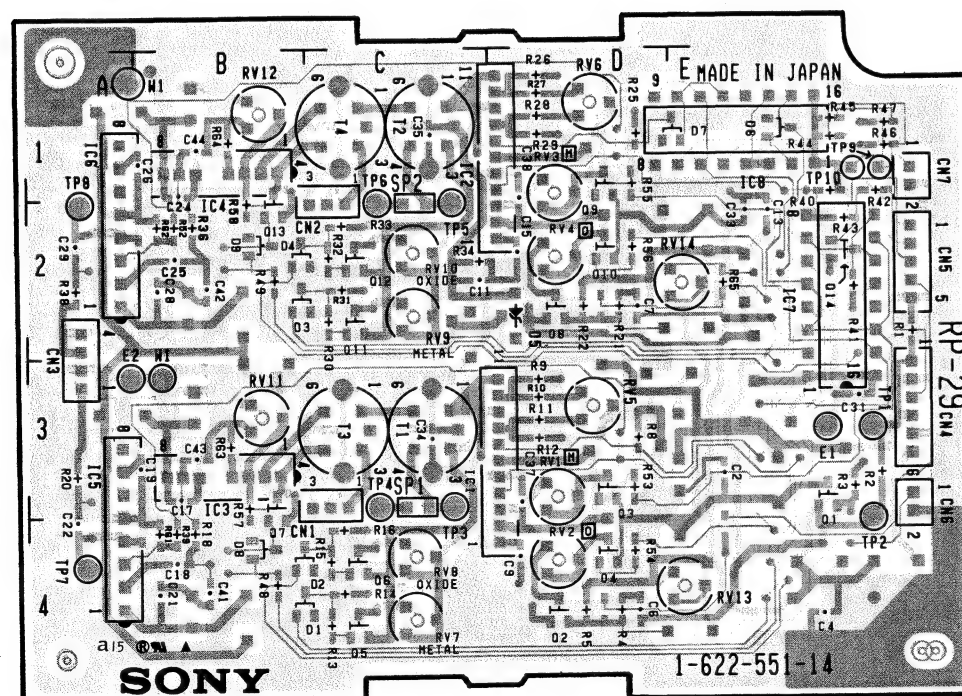
-5V
6
6
SCHEMATIC



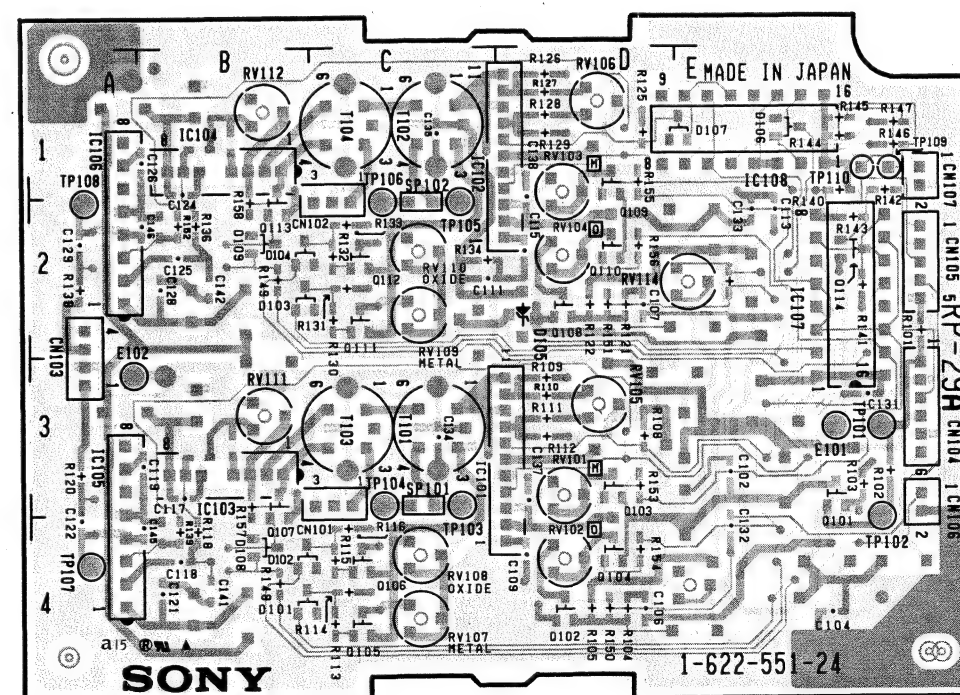
RP-29 (Y)—COMPONENT SIDE—
1-622-551-13, 14
BVW-70
BVW-75
BVW-96



RP-29 (C)—COMPONENT SIDE—
1-622-551-23, 24
BVW-70
BVW-75
BVW-96



RP-29 (Y)—SOLDERING SIDE—
1-622-551-13, 14
BVW-70
BVW-75
BVW-96



RP-29 (C)—SOLDERING SIDE—
1-622-551-23, 24
BVW-70
BVW-75
BVW-96

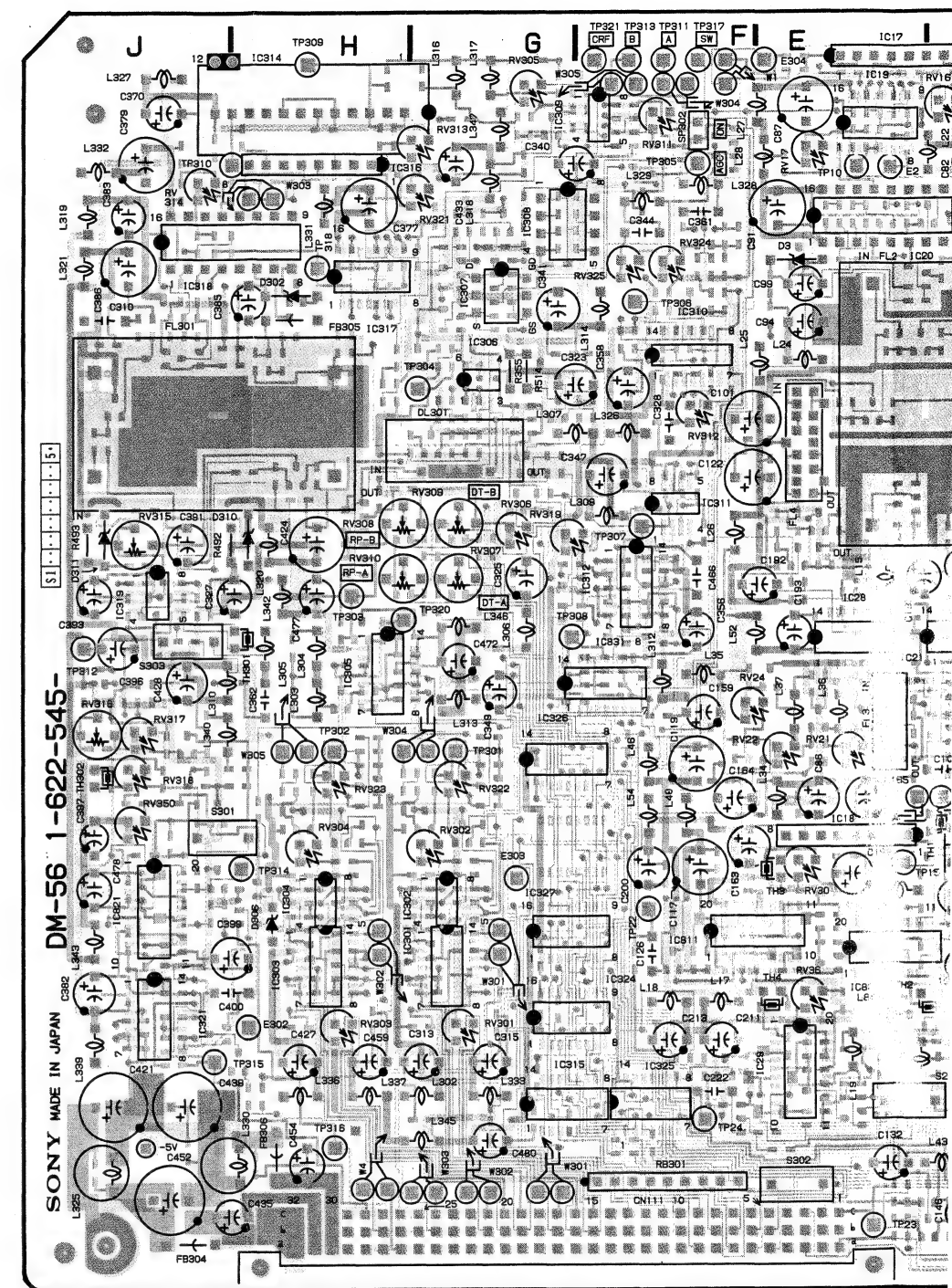
DM-56 (1-622-545-15,16)

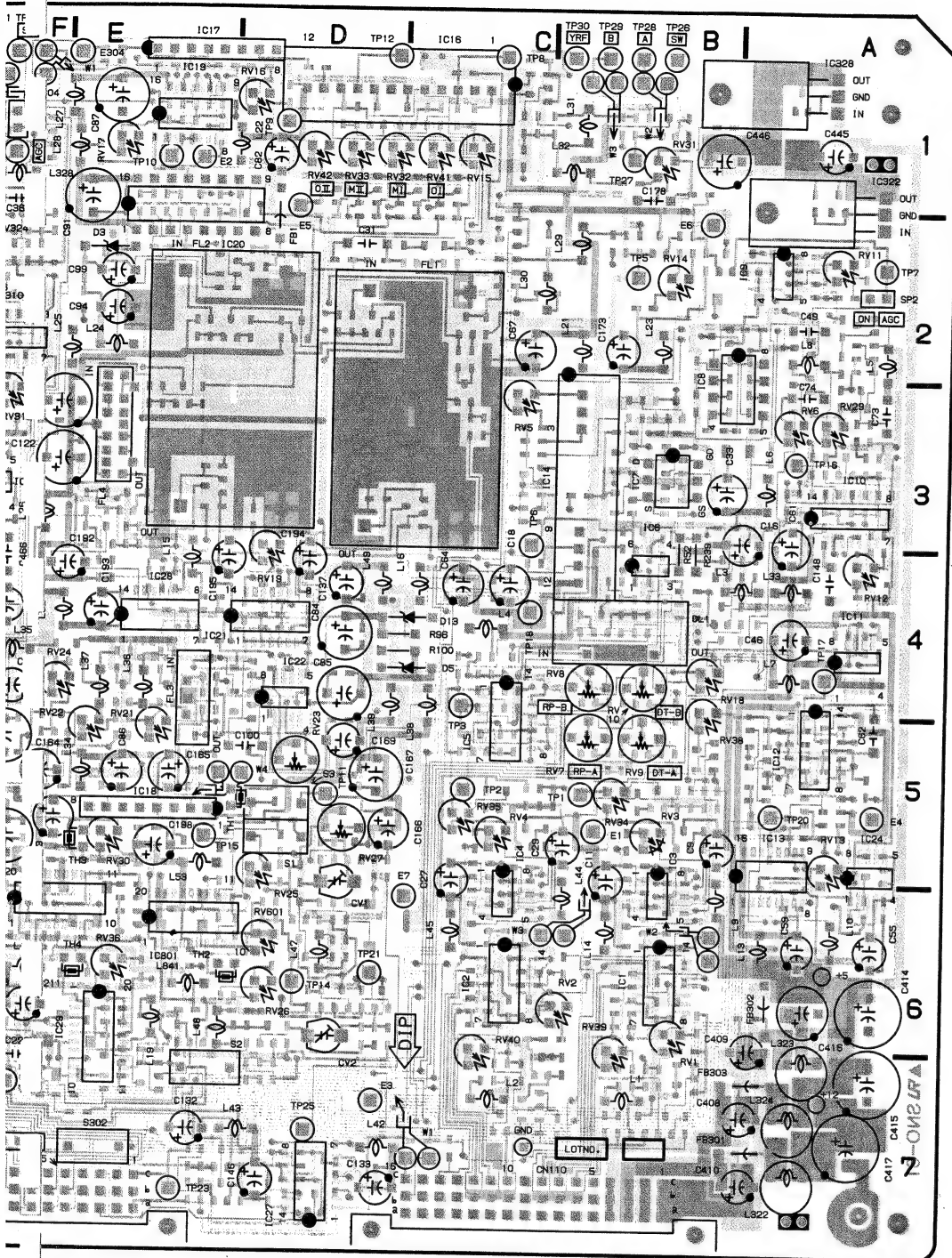
REF. NO.	TYPE	PIN NO.						
		+12V	+9V	+5V	REG +5V	GND	-5V	-12V
IC 1	CX20158			12		5.7.10	1	
IC 2	CX20158			12		5.7.10	1	
IC 3	μPC1663G			6			3	
IC 4	μPC1663G			6			3	
IC 5	CX20158			12		5.7.10	1	
IC 8	SN16913P	8				4		
IC 9	NJM4558M	8						4
IC 10	NJM1496M							14
IC 11	TL082CPS	8					4	
IC 12	SN75107AN			14		7	13	
IC 13	TC4053BF			16		8		
IC 14	BX-1098		12			3.9.10		
IC 16	HF UNIT			12		1.5.10		
IC 17	CX20061	1				5		
IC 18	CX20061	1				5		
IC 19	MC10H116M				1.16	8		
IC 20	MC10198L				1.16	8		
IC 21	CX20158			12		5.7.10	1	
IC 22	μPC1663G	6						3
IC 24	TL082CPS	8					4	
IC 27	CX20158			12		5.7.10	1	
IC 28	CX20158			12		5.7.10	1	
IC 301	CX20158			12		5.7.10	1	
IC 302	μPC1663G			6			3	
IC 303	CX20158			12		5.7.10	1	
IC 304	μPC1663G			6			3	
IC 305	CX20158			12		5.7.10	1	
IC 308	SN16913P			8		4		
IC 309	NJM4558M	8						4
IC 310	NJM1496M							14
IC 311	TL082CPS	8					4	
IC 312	SN75107AN			14		7	13	
IC 314	HF UNIT			12		1.5.10		
IC 315	TC74HC08F			14		5		
IC 316	CX20061	1				5		
IC 317	MC10H116M				1.16	8		
IC 318	MC10198L				1.16	8		
IC 319	μPC1663G			6			3	
IC 321	CX20158			12		5.7.10	1	
IC 322	NJM7809A	*	*	*		*	*	*
IC 324	TC74HC4049F			1		8		
IC 325	TC74HC08F			14		7		
IC 326	TC74HC08F			14		7		
IC 327	TC74HC4050F			1		8		
IC 328	NJM7805A	*	*	*		*	*	*
IC 801	CXA1039M		1			6.10.12		
IC 811	CXA1039M		1			6.10.12		
IC 821	CXA1039M		1			6.10.12		
IC 831	SN74LS06NS			14		7		

* REFER TO SCHEMATIC

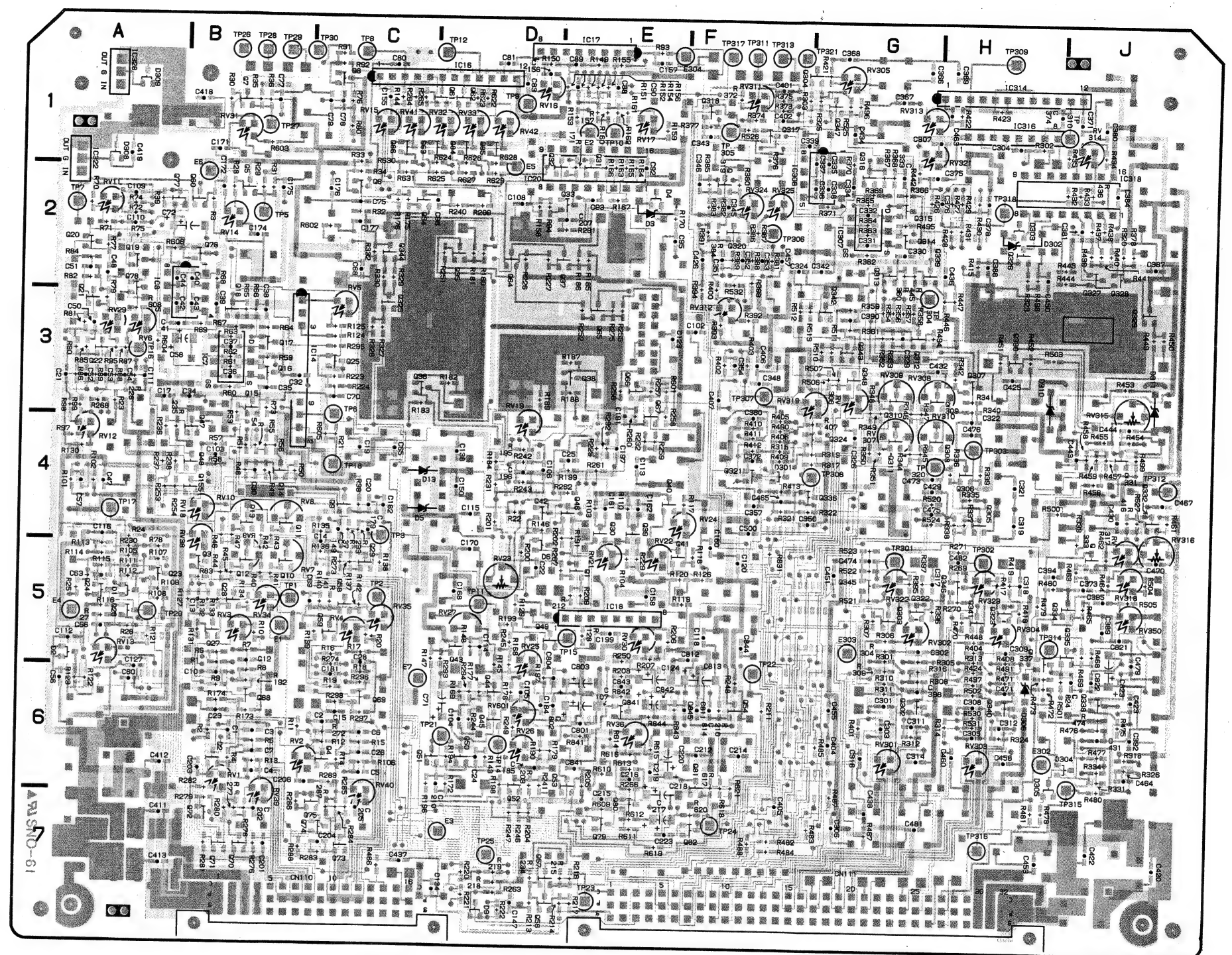
DM-56 (1-622-545-15,16)

CN110	B-7	IC27	D-7	Q43	D-5	Q335	J-5	RV319	F-3
CN111	E-7	IC28	E-4	Q44	D-6	Q336	G-4	RV321	G-2
		IC29	E-6	Q45	D-6	Q338	J-6	RV322	G-5
CV1	D-6	IC301	G-6	Q46	E-4	Q339	G-2	RV323	H-5
CV2	D-7	IC302	G-6	Q47	B-4	Q340	H-6	RV324	F-2
		IC303	H-6	Q48	B-4	Q341	H-5	RV325	F-2
D1	A-5	IC304	H-5	Q49	E-5	Q342	G-3	RV350	J-5
D2	A-5	IC305	H-4	Q50	D-6	Q343	G-3	RV601	D-6
D3	E-2	IC306	G-2	Q51	D-6	Q344	C-2		
D4	E-2	IC307	G-2	Q52	D-6	Q345	G-5	S1	D-5
D5	C-4	IC308	F-2	Q53	E-6	Q346	H-5	S2	E-7
D6	D-4	IC309	F-1	Q54	F-6	Q347	G-1	S3	D-5
D9	D-7	IC310	F-2	Q56	D-7	Q348	G-3	S301	H-5
D13	O-4	IC311	F-3	Q57	D-7	Q841	E-6	S302	E-7
D301	F-4	IC312	F-4	Q58	C-5			S303	J-4
D302	H-2	IC314	H-1	Q59	C-5	RB301	F-6		
D303	H-2	IC315	F-6	Q60	B-2			SP2	A-2
D304	J-6	IC316	H-1	Q61	D-1	RV1	B-6	SP302	F-1
D305	J-6	IC317	H-2	Q62	D-1	RV2	B-6		
D306	H-6	IC318	J-2	Q64	D-2	RV3	B-5	TH1	D-5
D308	A-1	IC319	J-4	Q65	E-3	RV4	C-5	TH2	D-6
D309	A-1	IC321	J-6	Q66	E-3	RV5	C-3	TH3	E-5
D310	H-3	IC322	A-2	Q67	E-3	RV6	A-3	TH4	E-6
D311	J-3	IC324	F-6	Q68	B-6	RV7	B-5	TH301	H-4
		IC325	F-6	Q69	C-6	RV8	B-4	TH302	H-5
DL1	B-4	IC326	F-5	Q70	B-7	RV9	B-5		
DL301	G-3	IC327	G-6	Q71	B-7	RV10	B-4	TP1	B-5
		IC328	A-1	Q72	B-7	RV11	A-2	TP2	C-5
F1	B-5	IC801	E-6	Q73	C-7	RV12	A-4	TP3	C-5
E2	E-1	IC811	F-6	Q74	C-7	RV13	A-5	TP5	B-2
E3	D-7	IC821	J-5	Q75	C-7	RV14	B-2	TP6	C-3
E4	A-5	IC831	F-4	Q76	B-2	RV15	C-1	TP7	A-2
E5	D-1			Q77	A-2	RV16	D-1	TP8	C-1
E6	B-2	Q1	E-5	Q78	A-2	RV17	E-1	TP9	D-1
E7	C-6	Q2	B-6	Q79	E-7	RV18	B-4	TP10	E-1
E302	H-6	Q3	B-5	Q80	E-7	RV19	D-4	TP11	D-5
E303	G-5	Q4	C-6	Q81	F-6	RV21	E-5	TP12	D-1
E304	E-1	Q5	C-3	Q82	F-7	RV22	E-5	TP14	D-6
		Q6	C-2	Q83	C-1	RV23	D-5	TP15	E-5
FB1	D-2	Q7	B-1	Q84	D-1	RV24	F-4	TP16	A-3
FB301	B-6	Q8	C-1	Q85	D-1	RV25	D-6	TP17	A-4
FB302	A-6	Q9	C-4	Q86	C-1	RV26	D-6	TP18	C-4
FB303	B-6	Q10	B-5	Q155	B-4	RV27	D-5	TP20	A-5
FB304	J-7	Q11	B-4	Q302	G-5	RV29	A-3	TP21	D-6
FB305	H-2	Q12	A-4	Q303	G-5	RV30	E-5	TP22	F-6
FB306	H-7	Q13	B-4	Q304	G-1	RV31	B-1	TP23	E-7
		Q14	B-4	Q305	H-4	RV32	D-1	TP24	F-7
FL1	C-2	Q15	B-3	Q306	H-4	RV33	D-1	TP25	D-7
FL2	E-2	Q16	B-3	Q307	H-3	RV34	B-5	TP26	B-1
FL3	E-4	Q17	B-3	Q308	H-4	RV35	C-5	TP27	B-1
FL4	E-3	Q18	B-3	Q309	H-3	RV36	E-6	TP28	B-1
FL301	J-2	Q19	A-2	Q310	G-3	RV38	B-5	TP29	B-1
		Q20	A-2	Q311	G-4	RV39	B-6	TP30	B-1
IC1	B-6	Q21	A-3	Q312	G-3	RV40	C-6	TP301	G-5
IC2	C-6	Q22	A-3	Q313	G-1	RV41	C-1	TP302	H-5
IC3	B-6	Q23	A-5	Q314	G-2	RV42	D-1	TP303	H-4
IC4	C-6	Q24	A-5	Q315	G-2	RV173	B-6	TP304	G-2
IC5	C-4	Q25	C-3	Q316	G-1	RV301	G-6	TP305	F-1
IC6	B-4	Q26	A-5	Q317	F-1	RV302	G-5	TP306	F-2
IC7	B-3	Q27	B-5	Q318	F-1	RV303	H-6	TP307	F-3
IC8	B-3	Q28	B-5	Q319	F-1	RV304	H-5	TP308	F-4
IC9	A-2	Q29	C-5	Q320	F-2	RV305	G-1	TP309	H-1
IC10	A-3	Q30	E-4	Q321	F-4	RV306	G-3	TP310	H-1
IC11	A-4	Q31	E-1	Q322	G-5	RV307	G-4	TP311	F-1
IC12	A-5	Q32	D-1	Q323	H-5	RV308	H-3	TP312	J-4
IC13	A-5	Q33	E-2	Q324	G-4	RV309	G-3	TP313	F-1
IC14	B-3	Q34	C-2	Q325	C-3	RV310	H-4	TP314	H-5
IC16	C-1	Q35	D-2	Q326	H-2	RV311	F-1	TP315	H-6
IC17	E-1	Q36	C-3	Q327	J-2	RV312	F-3	TP316	H-7
IC18	E-5	Q37	E-2	Q327	J-2	RV313	G-1	TP317	F-1
IC19	E-1	Q38	E-3	Q328	J-2	RV314	J-1	TP318	H-2
IC20	E-2	Q39	E-4	Q331	J-4	RV315	J-3	TP320	G-4
IC21	D-4	Q40	E-4	Q332	J-4	RV316	J-4	TP321	F-1
IC22	D-4	Q41	F-4	Q333	J-4	RV317	J-4		
IC24	A-5	Q42	D-4	Q334	J-5	RV318	J-5		





DM-56 — COMPONENT SIDE —
 1-622-545-15, 16
 BVW-65 BVW-75
 BVW-95 BVW-96



DM-56 — SOLDERING SIDE —
 1-622-545-15, 16
 BVW-65 BVW-75
 BVW-95 BVW-96

TBC-7; TIME BASE CORRECTOR

UC ; S/N 13028 through 13325
J ; S/N 11104 through 11303

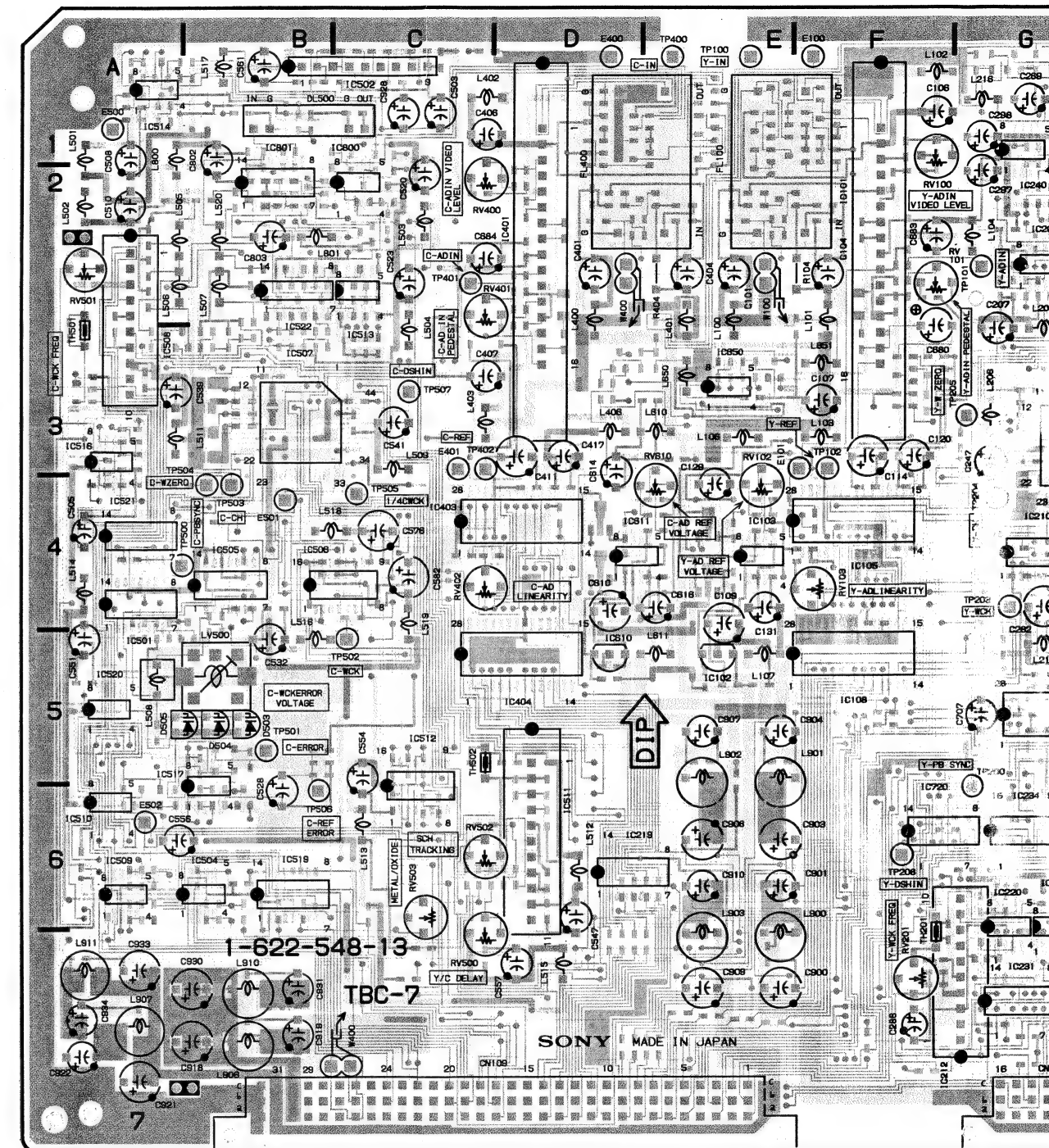
TBC-7 (1-622-548-13)

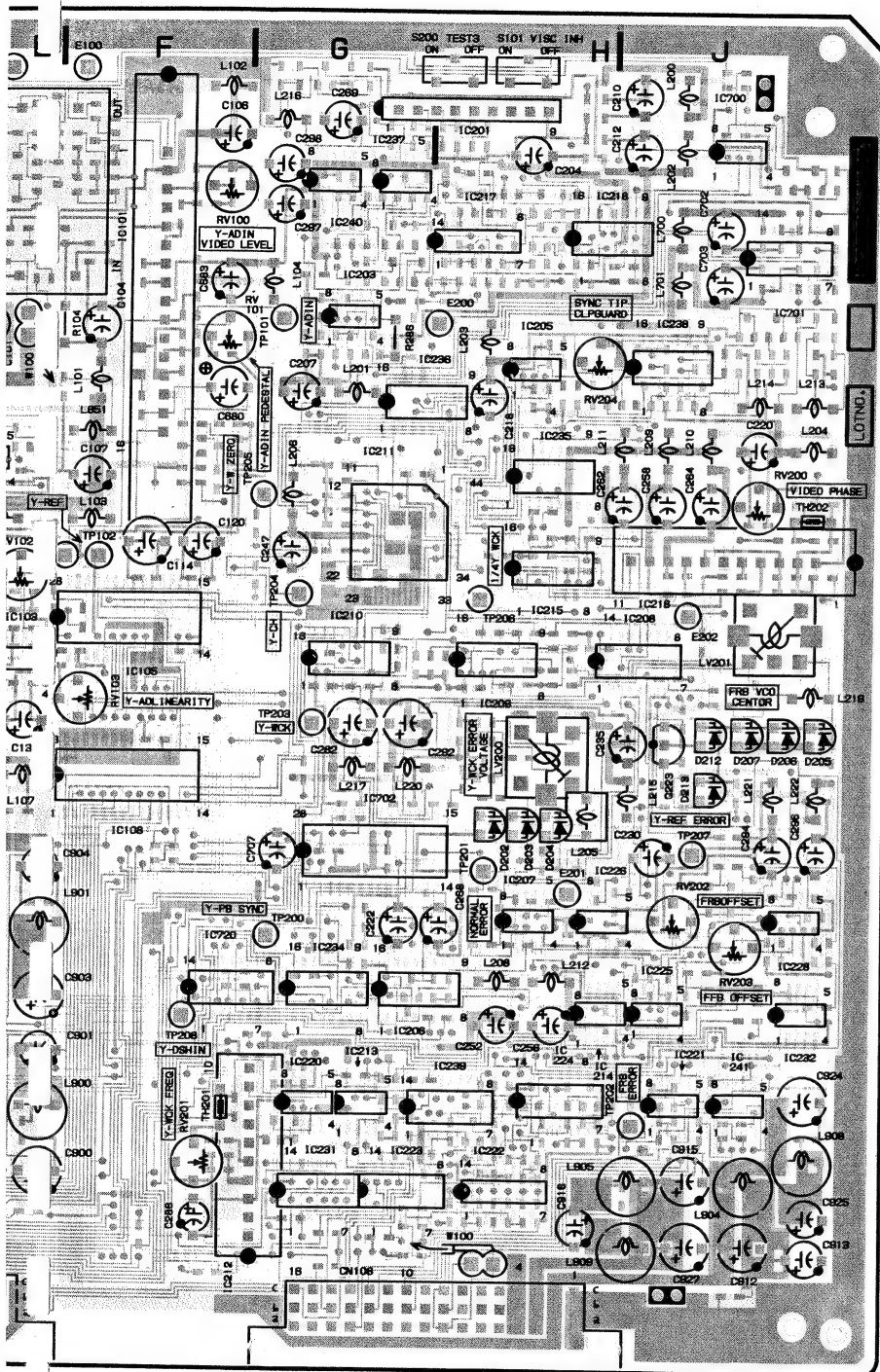
REF. NO.	TYPE	PIN. NO					
		+12V	+9V	+5V	GND	-5V	-12V
IC 101	SBX4002-01	2.11			4.13		5.14
IC 102	TL431CLPB	*	*	*	*	*	*
IC 103	TL082CPS	8					4
IC 105	CXA1096M			3.25.26	13.14.15.18	13.17	
IC 108	CXD1310AM			21	7		
IC 201	TA7357AP	*			5		
IC 203	MB4002PF	8			1		4
IC 205	MB4002PF	8			1		4
IC 206	SN74LS221NS			16	8		
IC 207	TL082CPS	8					4
IC 208	SN74LS06NS			*	7		
IC 209	MC10H116M				1.16	8	
IC 210	MC10H125M			9	16	8	
IC 211	CXD1045AQ			17.39	1.6.28		
IC 212	BX-1461	8			4.7		
IC 213	TL082CPS	8					4
IC 214	TL601CPS	8					5
IC 215	SN74LS221NS			16	8		
IC 216	BX-1460	10			8		9
IC 217	μPC319G2	11			3.8		6
IC 218	TC74HC221F			16	8		
IC 219	TC74HC74F			14	7		
IC 220	TL082CPS	8					4
IC 221	TL601CPS	8			1		5
IC 222	μPC339G2	3			12		
IC 223	TC74HC32F			14	7		
IC 224	TC74HC00F			14	7		
IC 225	TL082CPS	8					4
IC 226	TL601CPS	8			1		5
IC 231	TC74HC08F			14	7		
IC 232	TL601CPS	8			1		5
IC 235	TC74HC157F			16	8		
IC 236	TC74HC157F			16	8		
IC 237	TL082CPS	8			8		4
IC 238	SN74LS123			16			
IC 239	TC74HC32F			10.12	9.13		
IC 241	μPC339G			5	4		8
IC 401	SBX-4002-01	2.11			4.13		5.14
IC 403	CXA1096M			13.17	12.14.15.18		
IC 404	CXD1310AM		21		7		
IC 501	TC74HC00F	*		14	7		
IC 502	TA7357AP	8			5		4
IC 504	TL082CPS			14	7		
IC 505	SN74LS06NS			9	16		
IC 506	MC10H125M			17.39	1.6.28		
IC 507	CXD1045Q				4.6		
IC 508	BX-1461	8					
IC 509	TL082CPS	8					4
IC 510	TL601CPS	8			1		5
IC 511	BX-1460	10			8		9
IC 512	SN74LS221NS			16	8		
IC 513	MB4002PF	8			1		4
IC 514	TL601CPS	8			1		5
IC 516	TL082CPS	8					4
IC 517	TL082CPS	8					4
IC 519	TC74HC86F			14	7		
IC 520	TL601CPS	8			1		5
IC 610	TL431CLPB	*	*	*	*	*	*
IC 611	TL082CPS	8					4
IC 650	MB4002PF	8			1		4
IC 700	TL601CPS	8			1		5
IC 701	CX20158			12	5.7.10	1	
IC 702	CX7930A			28	14		
IC 720	TC74HC08F			14	7		
IC 800	TL601CPS	8			1		5
IC 801	CX20158			14	5.7.10	1	

* REFER TO SCHEMATIC

TBC-7 (1-622-548-13)

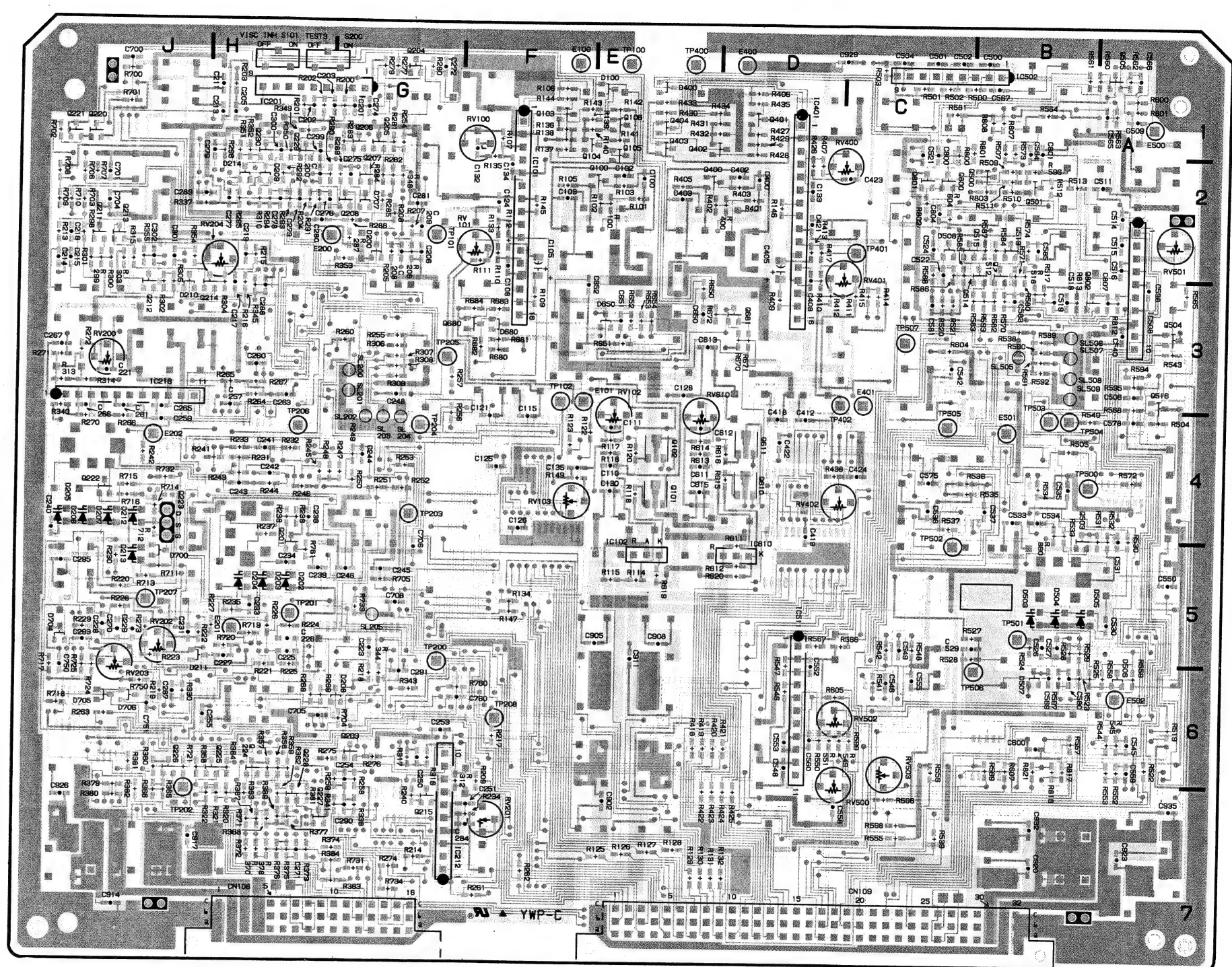
CN108	H-7	IC224	H-6	Q227	H-7	TP207	J-5
CN109	D-7	IC225	J-6	Q228	H-7	TP208	F-6
		IC226	H-5	Q229	H-2	TP400	E-1
D100	E-1	IC228	J-6	Q230	H-2	TP401	C-2
D200	G-2	IC231	G-7	Q400	E-2	TP402	D-3
D202	H-5	IC232	J-6	Q401	D-1	TP500	B-4
D203	H-5	IC234	G-6	Q402	E-1	TP501	D-5
D204	H-5	IC235	H-3	Q403	E-1	TP502	C-4
D205	J-4	IC236	G-3	Q404	E-1	TP503	B-3
D206	J-4	IC237	G-1	Q500	B-1	TP504	B-3
D207	J-4	IC238	J-2	Q501	B-2	TP505	C-3
D208	G-6	IC239	H-6	Q503	B-4	TP506	C-5
D209	H-2	IC240	G-1	Q504	A-3	TP507	C-3
D210	J-3	IC241	J-6	Q505	A-1		
D211	J-5	IC401	D-2	Q512	B-2		
D212	J-4	IC403	D-4	Q513	B-2		
D213	J-5	IC404	D-4	Q514	B-2		
D214	H-2	IC501	A-4	Q515	B-2		
D400	E-1	IC502	C-1	Q516	A-3		
D503	B-5	IC504	B-6	Q610	D-4		
D504	B-5	IC505	B-4	Q611	D-4		
D505	B-5	IC506	C-4	Q680	G-3		
D506	A-5	IC507	C-3	Q681	D-3		
D507	B-5	IC508	A-2	Q800	C-2		
D508	C-2	IC509	A-6	Q801	C-2		
D650	E-3	IC510	A-5	Q802	B-2		
D680	F-3	IC511	D-6				
D700	J-5	IC512	C-5	RV100	F-1		
D704	J-5	IC513	C-2	RV101	G-2		
D705	J-6	IC514	A-1	RV102	E-4		
D706	J-6	IC516	A-3	RV103	F-4		
D707	G-2	IC517	B-5	RV200	J-3		
		IC519	C-6	RV201	F-7		
DL500	C-1	IC520	A-5	RV202	J-5		
		IC521	A-4	RV203	J-5		
E100	F-1	IC522	B-2	RV204	H-2		
E101	F-4	IC610	E-4	RV400	D-1		
E200	H-1	IC611	E-4	RV401	D-2		
E201	H-5	IC650	E-3	RV402	C-4		
E202	J-5	IC700	J-1	RV500	D-6		
E400	D-1	IC701	J-2	RV501	A-2		
E401	D-4	IC702	G-5	RV502	D-6		
E500	A-1	IC720	F-6	RV503	D-5		
E501	C-4	IC800	C-1	RV610	E-3		
E502	A-6	IC801	B-1				
FL100	F-1	LV200	H-5	S101	H-1		
FL400	E-1	LV201	J-4	S200	G-1		
		LV500	B-5				
IC101	F-2	Q100	F-2	SL200	G-3		
IC102	F-4	Q101	E-4	SL201	G-3		
IC103	F-4	Q102	E-4	SL202	G-3		
IC105	F-4	Q103	F-1	SL203	G-4		
IC108	F-5	Q104	F-1	SL204	G-4		
IC201	G-1	Q105	E-1	SL205	G-5		
IC203	G-2	Q106	E-1	SL505	B-3		
IC205	H-2	Q201	H-5	SL506	B-3		
IC206	G-6	Q202	G-6	SL507	B-3		
IC207	H-5	Q203	G-1	SL508	B-3		
IC208	J-4	Q204	G-1	SL509	B-3		
IC209	H-4	Q205	G-1				
IC210	G-4	Q206	G-1	TH201	F-6		
IC211	G-3	Q207	G-2	TH202	J-7		
IC212	G-7	Q208	G-2	TH501	A-2		
IC213	G-6	Q211	J-2	TH502	D-5		
IC214	J-6	Q212	J-2				
IC215	H-3	Q213	J-2	TP100	E-1		
IC216	J-3	Q214	H-3	TP101	G-2		
IC217	H-2	Q215	G-7	TP102	F-3		
IC218	H-2	Q220	J-1	TP200	G-5		
IC219	E-6	Q221	J-1	TP201	H-5		
IC220	G-6	Q222	J-4	TP202	J-7		
IC221	J-6	Q223	J-4	TP203	G-4		
IC222	H-7	Q224	H-6	TP204	G-3		
IC223	G-7	Q225	H-6	TP205	G-3		
				TP206	H-4		





TBC-7 - COMPONENT SIDE -

1-622-548-13
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96



TBC-7 - SOLDERING SIDE -

1-622-548-13
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

TBC-7; TIME BASE CORRECTOR

UC : S/N 13326 and higher
J : S/N 11304 and higher

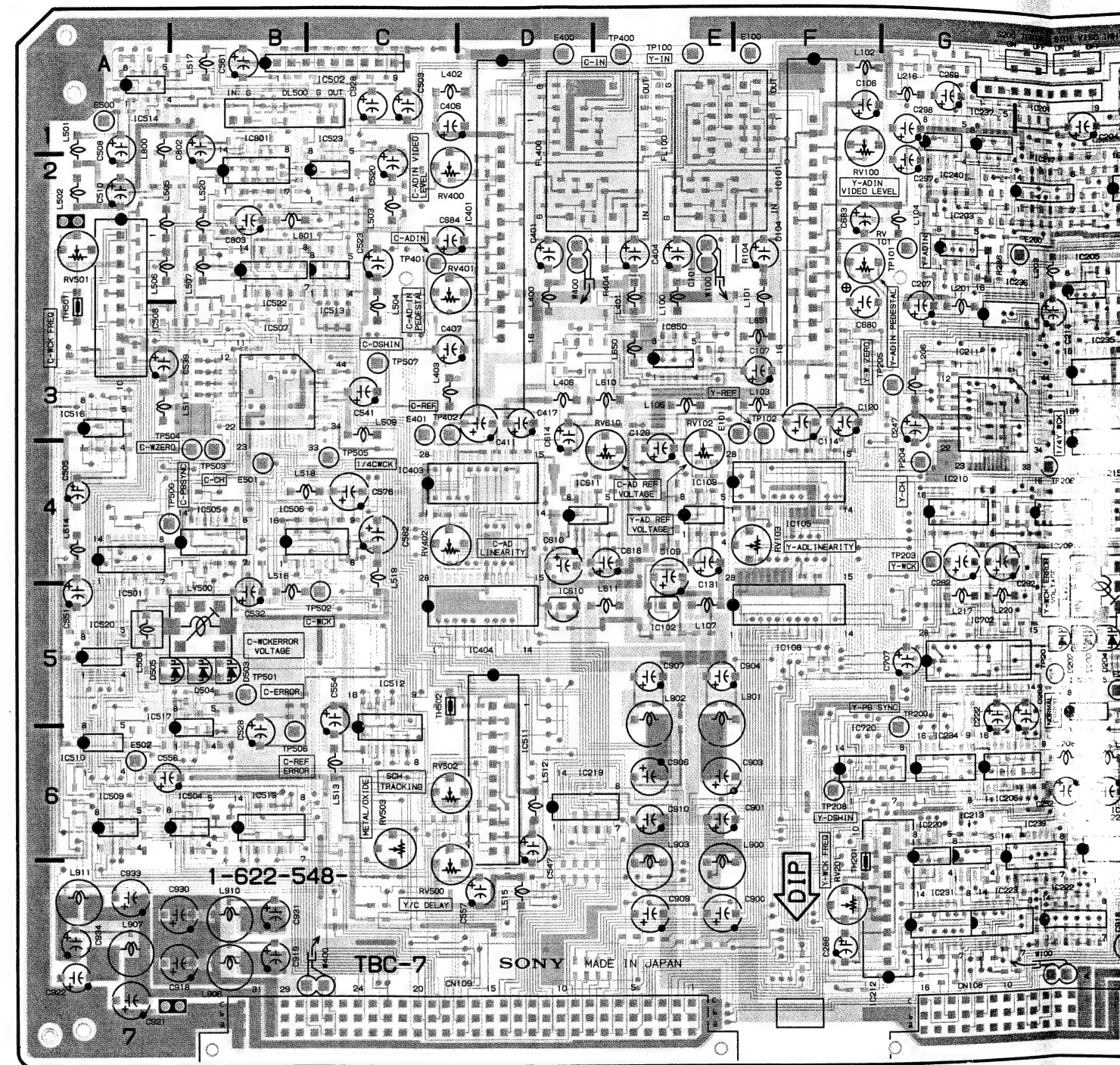
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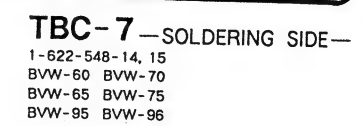
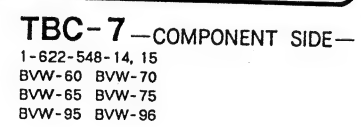
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IC 101	SBX4002-01	2.11			4.13		5.14
IC 102	TL431CLPB	*	*	*	*	*	*
IC 103	TL082CPS	8					4
IC 105	CXA1096M			3.25.26	13.14.15.18	13.17	
IC 108	CXD1310AM			21	7		
IC 201	TA7357AP	*			5		
IC 203	MB4002PF	8			1		4
IC 205	MB4002PF	8			1		4
IC 206	SN74LS221NS			16	8		
IC 207	TL082CPS	8					4
IC 208	SN74LS06NS			*	7		
IC 209	MC10H116M				1.16	8	
IC 210	MC10H125M			9	16		
IC 211	CXD1045AQ			17.39	1.6.28		
IC 212	BX-1461	8			4.7		
IC 213	TL082CPS	8					4
IC 214	TL601CPS	8					5
IC 215	SN74LS221NS			16	8		
IC 216	BX-1460	10			8		9
IC 217	PC319G2	11			3.8		6
IC 218	TC74HC221F			16	8		
IC 219	TC74HC74F			14	7		
IC 220	TL082CPS	8					4
IC 221	TL601CPS	8			1		5
IC 222	PC339G2	3			12		
IC 223	TC74HC32F			14	7		
IC 224	TC74HC00F			14	7		
IC 225	TL082CPS	8					4
IC 226	TL601CPS				1		5
IC 231	TC74HC08F			14	7		
IC 232	TL601CPS	8			1		5
IC 235	TC74HC157F			16	8		
IC 236	TC74HC157F			16	8		
IC 237	TL082CPS	8					4
IC 238	SN74LS123			16			
IC 239	TC74HC32F			10.12	9.13		
IC 241	PC339G2			5	4		8
IC 401	SBX-4002-01	2.11			4.13		5.14
IC 403	CXA1096M			13.17	12.14.15.18		
IC 404	CXD1310AM		21		7		
IC 501	TC74HC00F			14	7		
IC 502	TA7357AP	*			5		
IC 504	TL082CPS	8					4
IC 505	SN74LS06NS			14	7		
IC 506	MC10H125M			9	16		
IC 507	CXD1045AQ			17.39	1.6.28		
IC 508	BX-1461	8			4.6		
IC 509	TL082CPS	8					4
IC 510	TL601CPS	8			1		5
IC 511	BX-1460	10			8		9
IC 512	SN74LS221NS			16	8		
IC 513	MB4002PF	8			1		4
IC 514	TL601CPS	8			1		5
IC 516	TL082CPS	8					4
IC 517	TL082CPS	8					4
IC 519	TC74HC86F			14	7		
IC 520	TL601CPS	8			1		5
IC 610	TL431CLPB	*	*	*	*	*	*
IC 611	TL082CPS	8					4
IC 650	MB4002PF	8			1		4
IC 700	TL601CPS	8			1		5
IC 701	CX20158			12	5.7.10	1	
IC 702	CX7930A			28	14		
IC 720	TC74HC08F			14	7		
IC 801	CX20158			14	5.7.10	1	

* REFER TO SCHEMATIC

TBC-7(1-622-548-14,15)

CN108	H-7	IC225	J-6	Q229	H-2
CN109	D-7	IC226	H-5	Q230	H-2
		IC228	J-5	Q400	E-2
D100	E-1	IC231	G-7	Q401	D-1
D200	G-2	IC232	J-6	Q402	E-1
D202	H-5	IC234	G-6	Q403	E-1
D203	H-5	IC235	H-3	Q404	E-1
D204	H-5	IC236	G-3	Q500	B-2
D205	J-4	IC237	G-1	Q501	B-2
D206	J-4	IC238	J-2	Q503	B-4
D207	J-4	IC239	H-6	Q504	A-3
D208	G-6	IC240	G-1	Q505	A-1
D209	H-2	IC241	J-6	Q512	B-2
D210	J-3	IC401	D-2	Q513	B-2
D211	J-6	IC403	D-4	Q514	B-2
D212	J-4	IC404	D-5	Q515	B-2
D213	J-5	IC501	A-4	Q516	A-3
D214	H-2	IC502	C-1	Q610	D-4
D400	E-1	IC504	B-6	Q611	D-4
D503	B-5	IC505	B-4	Q680	G-3
D504	B-5	IC506	C-4	Q681	D-3
D505	A-5	IC507	B-3	Q800	C-2
D506	A-6	IC508	A-2	Q801	C-2
D507	B-6	IC509	A-6	Q802	B-3
D508	C-2	IC510	A-6	Q803	C-1
D650	E-3	IC511	D-6		
D680	F-3	IC512	C-5	RV100	F-1
D700	J-5	IC513	C-2	RV101	F-2
D704	J-5	IC514	A-1	RV102	E-4
D705	J-6	IC516	A-3	RV103	F-4
D706	J-6	IC517	B-6	RV200	J-3
D707	G-2	IC519	B-6	RV201	F-7
		IC520	A-5	RV202	J-5
		IC522	B-2	RV203	J-6
		IC523	C-2	RV400	C-2
		IC610	D-5	RV401	C-2
		IC611	D-4	RV402	C-4
		IC650	E-3	RV500	C-7
		IC700	J-1	RV501	A-2
		IC701	J-2	RV502	C-6
		IC702	G-5	RV503	C-6
		IC720	F-6	RV610	E-4
		IC801	B-2		
DL500	B-1			S101	H-1
		LV200	H-5	S200	H-1
		LV201	J-4		
		LV500	B-5		
E100	F-1			TH201	F-6
E101	F-3			TH202	J-3
E200	H-2			TH501	A-2
E201	H-5			TH502	C-5
E202	J-4				
E400	D-1			TP100	E-1
E401	C-3			TP101	G-2
E500	A-1			TP102	F-3
E501	A-4			TP200	G-5
E502	A-6			TP201	H-5
				TP202	J-7
				TP203	G-4
				TP204	G-4
				TP205	G-3
				TP206	H-4
				TP207	J-5
				TP208	F-6
				TP400	E-1
				TP401	C-2
				TP402	C-3
				TP500	A-4
				TP501	B-5
				TP502	C-5
				TP503	B-4
				TP504	B-4
				TP505	C-4
				TP506	B-6
				TP507	C-3





TBC-8; TIME BASE CORRECTOR

UC; Up to S/N 14368
J; Up to S/N 11668

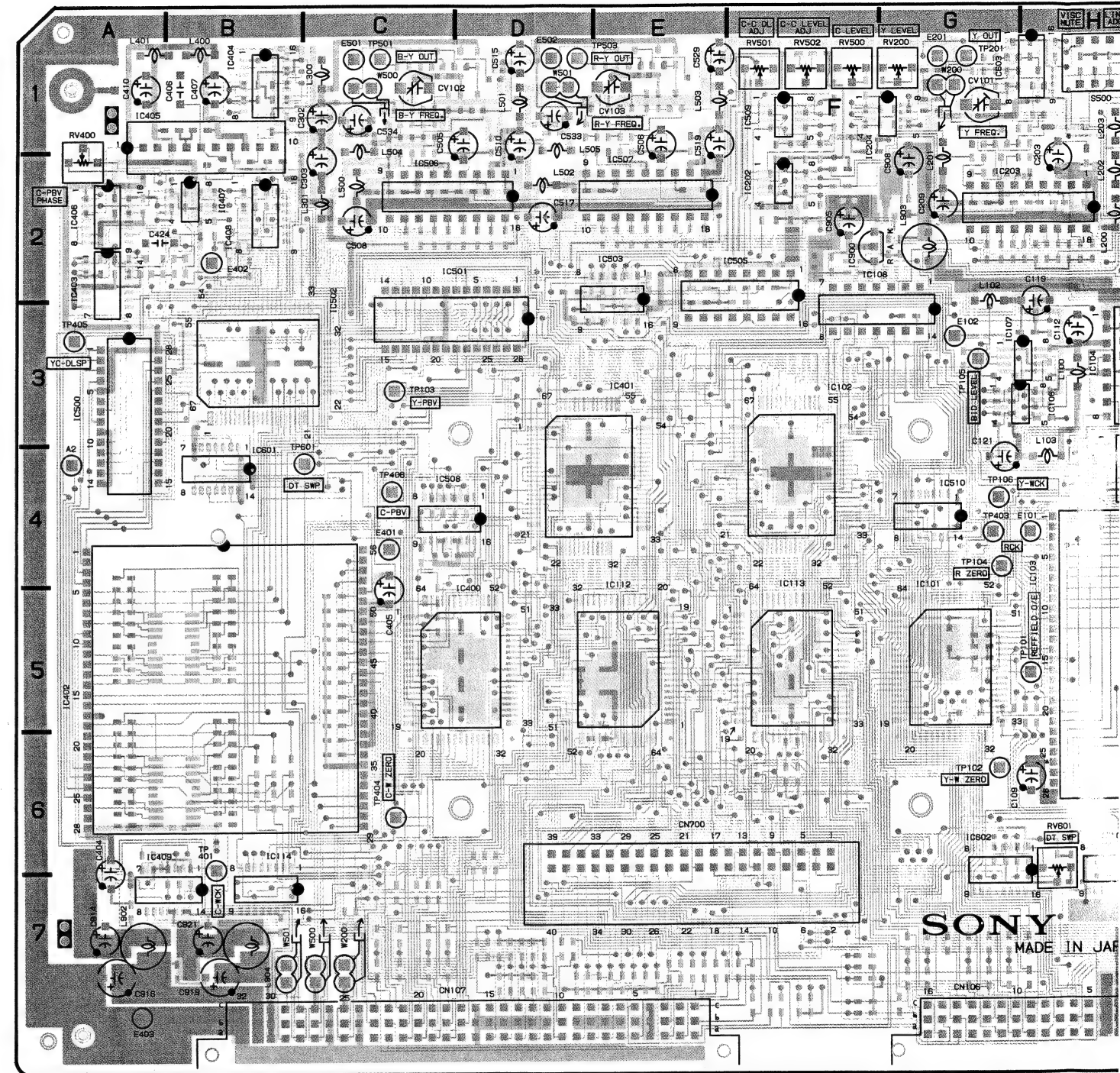
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REF. NO.	TYPE	PIN. NO				
		+12V	+5V	GND	-5V	-12V
IC 100	MC10H125M		9	16	8	
IC 101	CXD10220A		26.58	10.42		
IC 102	CXD1023AQ		27.61	1.11.44		
IC 103	SBX1596-01		28.51	17.35		
IC 104	TD62901P	13				3
IC 106	NJM4560M	8				4
IC 107	TL601CPS	8		1		5
IC 108	74F04PC		14	7		
IC 109	TC74HC04F		14	7		
IC 110	TC74HC04F		14	7		
IC 112	CXD8024Q		26.58	10.42		
IC 113	CXD1326AQ		26.58	10.42		
IC 114	SN74LS157NS		16	8		
IC 200	CXK1202S		28	14		
IC 201	CXD1131Q		27.61	1.11.44		
IC 202	NJM4560M	8				4
IC 203	MB40778P		2.5.7.8	1.9		
IC 204	NJM4560M	8				4
IC 400	CXD10220A		26.58	10.42		
IC 401	CXD1023AQ		27.61	1.11.44		
IC 402	SBX1596-01		28.51	17.35		
IC 403	TC74HC08F		14	7		
IC 404	TC74HC221F		16	8		
IC 405	BX1461	8			3	
IC 406	TC4053BF		16	8	7	
IC 407	TL082CPS	8				4
IC 408	SN74LS221NS		16	8		
IC 409	TC74HC04F		14	7		
IC 500	CXK1202S		28	14		
IC 501	CXK1202S		28	14		
IC 502	CXD1131Q		27.61	1.11.44	8	
IC 503	MC10H125M		9	16	8	
IC 504	TC74HC00F		14	7		
IC 505	MC10198L			1.16	8	
IC 506	MB40778P		2.5.7.8	1.9		
IC 507	MB40778P		2.5.7.8	1.9		
IC 508	SN74LS221NS		16	8		
IC 509	NJM4560M	8				4
IC 510	TC74HC08F		14	7		
IC 512	TC74HC27F		14	7		
IC 900	TL431CLPB	*	*	*	*	*
IC 601	TC74HC74F		14	7		
IC 602	TC74HC221F		16	8		
IC 603	SN74LS157NS		16	8		

* REFER TO SCHEMATIC

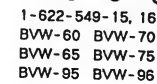
TBC-8(1-622-549-15,16)

CN106	G-7	IC406	A-2	TP103	C-3
CN107	C-7	IC407	B-2	TP104	G-4
CN700	E-7	IC408	B-2	TP105	G-3
		IC409	B-6	TP106	F-3
CV101	G-1	IC500	A-3	TP201	G-1
CV102	C-1	IC501	C-3	TP401	B-6
CV103	E-1	IC502	B-3	TP403	D-3
		IC503	E-3	TP404	C-6
D201	G-1	IC504	J-1	TP405	A-3
D202	G-1	IC505	E-3	TP406	C-4
D400	B-2	IC506	C-2	TP501	C-1
D500	D-1	IC507	E-2	TP503	D-1
D501	E-1	IC508	D-4	TP601	B-4
		IC509	F-1		
E101	H-4	IC510	G-4		
E102	G-3	IC512	J-1		
E103	J-7	IC601	B-4		
E201	G-1	IC602	G-6		
E401	C-4	IC603	H-1		
E402	B-2	IC900	F-2		
E403	A-7				
E501	C-1	Q201	G-2		
E502	D-1	Q202	H-1		
		Q203	G-1		
IC100	H-6	Q204	G-1		
IC101	G-5	Q205	G-1		
IC102	F-4	Q400	A-2		
IC103	J-5	Q401	B-2		
IC104	H-3	Q402	B-2		
IC106	G-3	Q500	C-1		
IC107	G-3	Q501	D-1		
IC108	F-3	Q502	D-1		
IC109	H-4	Q503	D-1		
IC110	J-4	Q504	E-1		
IC112	E-5	Q505	E-1		
IC113	F-5	Q900	G-2		
IC114	B-6				
IC200	J-3	RV200	G-1		
IC201	J-2	RV400	A-1		
IC202	F-2	RV500	F-1		
IC203	G-2	RV501	F-1		
IC204	G-1	RV502	F-1		
IC400	D-5	RV601	H-6		
IC401	D-4				
IC402	B-5	S500	H-1		
IC403	A-2				
IC404	B-1	TP101	H-5		
IC405	B-1	TP102	G-6		





1-622-549-15, 16
BVW-60 BVW-70
BVW-65 BVW-75
BVW-95 BVW-96



TBC-8; TIME BASE CORRECTOR

UC; S/N 14369 and higher
J; S/N 11669 and higher

TBC-8 (1-622-549-17)

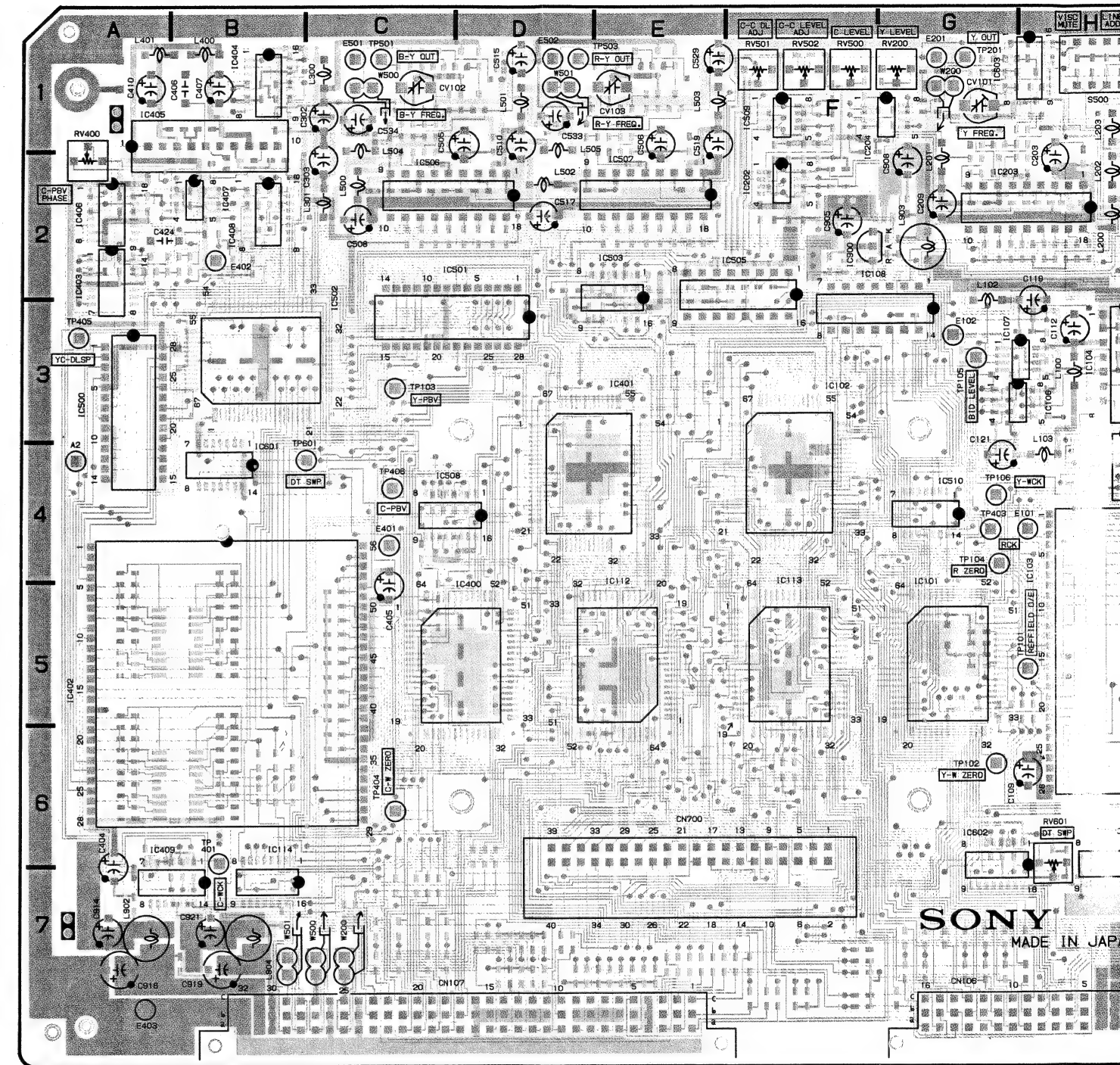
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IC 100	MC10H125M		9	16	8	
IC 101	CXD1022CQ		26.58	10.42		
IC 102	CXD1023AQ		27.61	1.11.44		
IC 103	SBX1596-01		28.51	17.35		
IC 104	TD62901P	13				3
IC 106	NJM4560M	8				4
IC 107	TL601CPS	8		1		5
IC 108	74F04PC		14	7		
IC 109	TC74HC04F		14	7		
IC 110	TC74HC04F		14	7		
IC 112	CXD8024Q		26.58	10.42		
IC 113	CXD1326AQ		26.58	10.42		
IC 114	SN74LS157NS		16	8		
IC 200	CXK1202S		28	14		
IC 201	CXD1131Q		27.61	1.11.44		
IC 202	NJM4560M	8				4
IC 203	MB40778P		2.5.7.8	1.9		
IC 204	NJM4560M	8				4
IC 400	CXD1022CQ		26.58	10.42		
IC 401	CXD1023AQ		27.61	1.11.44		
IC 402	SBX1596-01		28.51	17.35		
IC 403	TC74HC86F		14	7		
IC 404	TC74HC221F		16	8	3	
IC 405	BX1461	8		8	7	
IC 406	TC4053BF		16	8		4
IC 407	TL082CPS	8				
IC 408	SN74LS221NS		16	8		
IC 409	TC74HC04F		14	7		
IC 500	CXK1202S		28	14		
IC 501	CXK1202S		28	14		
IC 502	CXD1131Q		27.61	1.11.44	8	
IC 503	MC10H125M		9	16	8	
IC 504	TC74HC00F		14	7		
IC 505	MC10198L			1.16	8	
IC 506	MB40778P		2.5.7.8	1.9		
IC 507	MB40778P		2.5.7.8	1.9		
IC 508	SN74LS221NS		16	8		
IC 509	NJM4560M	8				4
IC 510	TC74HC08F		14	7		
IC 512	TC74HC27F		14	7		
IC 900	TL431CLPB	*	*	*	*	*
IC 601	TC74HC74F		14	7		
IC 602	TC74HC221F		16	8		
IC 603	SN74LS157NS		16	8		

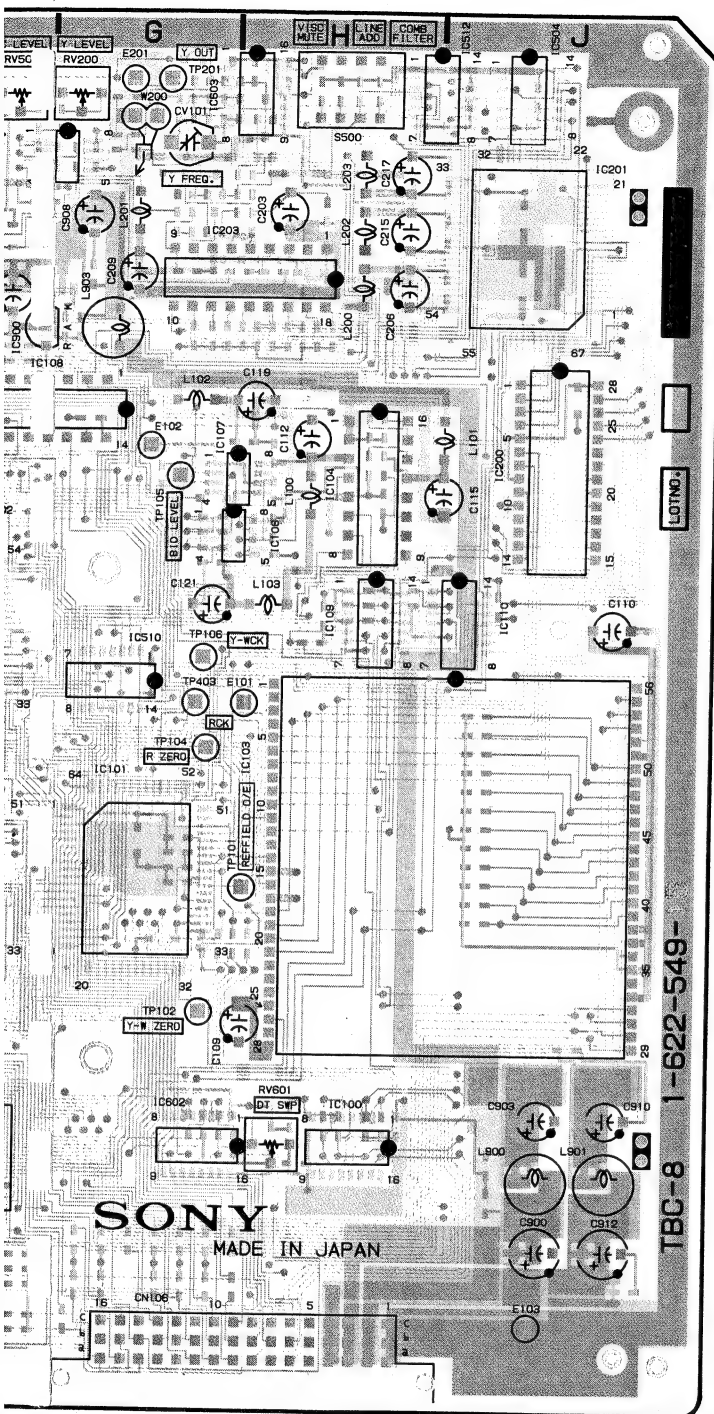
* REFER TO SCHEMATIC

TBC-8 (1-622-549-17)

CN106	G-7	IC406	A-2
CN107	C-7	IC407	B-2
CN700	E-7	IC408	B-2
		IC409	B-6
CV101	G-1	IC500	A-3
CV102	C-1	IC501	D-2
CV103	E-1	IC502	B-3
		IC503	E-3
D201	G-1	IC504	J-1
D202	G-1	IC505	F-2
D400	B-2	IC506	C-2
D500	D-1	IC507	E-2
D501	E-1	IC508	D-4
		IC509	F-1
E101	H-4	IC510	G-4
E102	G-3	IC512	J-1
E103	J-7	IC601	B-4
E201	G-1	IC602	G-6
E401	C-4	IC603	H-1
E402	B-2	IC900	F-2
E403	A-7		
E501	C-1	Q201	G-2
E502	D-1	Q202	H-1
		Q203	C-1
IC100	H-6	Q204	G-1
IC101	G-5	Q205	G-1
IC102	F-4	Q400	A-2
IC103	H-4	Q401	B-2
IC104	H-3	Q402	B-2
IC106	G-3	Q500	C-1
IC107	G-3	Q501	D-1
IC108	F-3	Q502	D-1
IC109	H-4	Q503	D-1
IC110	J-4	Q504	E-1
IC112	E-5	Q505	E-1
IC113	F-5	Q900	G-2
IC114	B-6		
IC200	J-3	RV200	G-1
IC201	J-2	RV400	A-1
IC202	F-2	RV500	F-1
IC203	G-2	RV501	F-1
IC204	G-1	RV502	F-1
IC400	D-5	RV601	H-6
IC401	E-3		
IC402	B-5	S500	H-1
IC403	A-2		
IC404	B-1	TP101	H-5
IC405	B-1	TP102	G-6

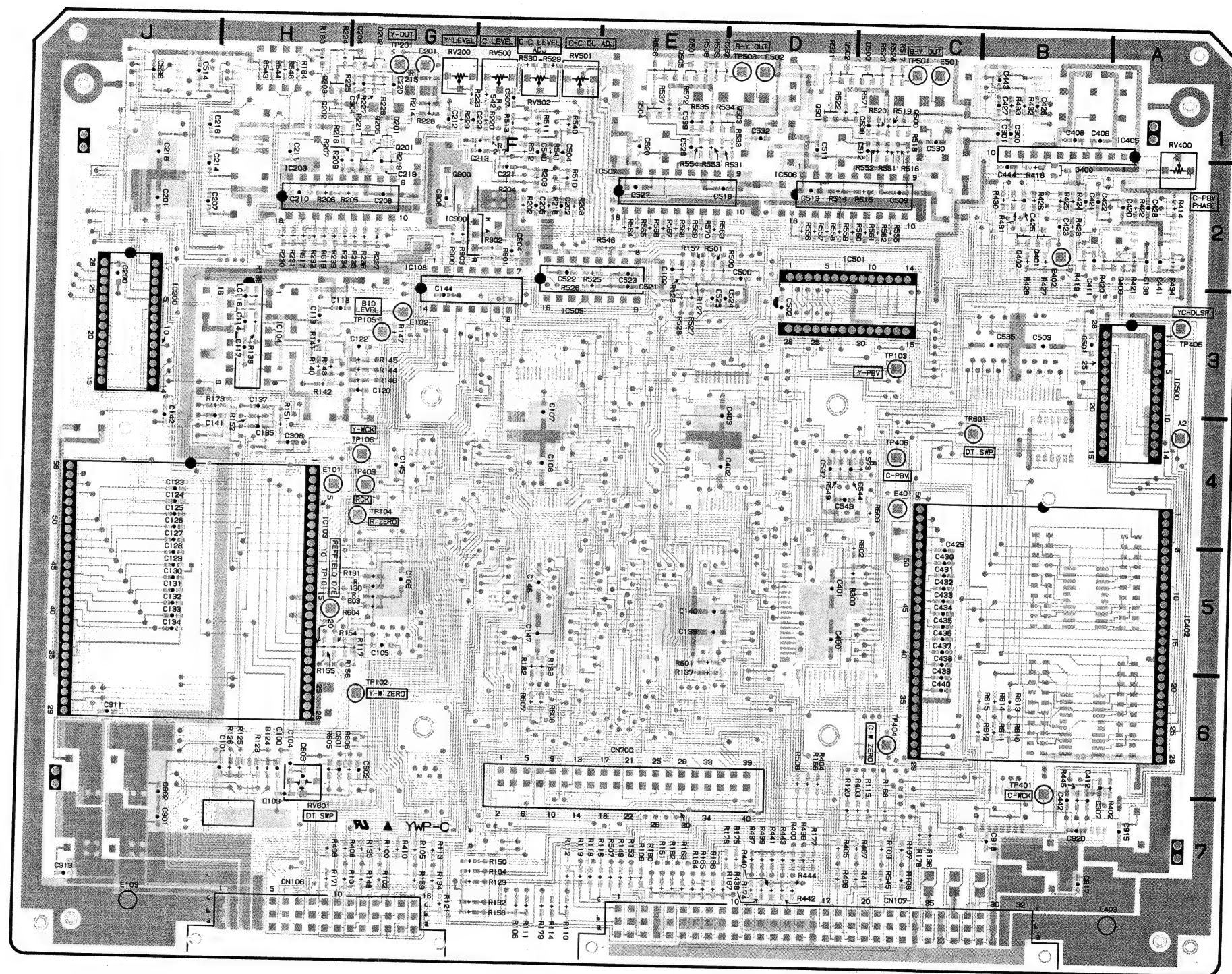
TP103	C-3
TP104	G-4
TP105	G-3
TP106	F-3
TP201	G-1
TP401	B-6
TP403	D-3
TP404	C-6
TP405	A-3
TP406	C-4
TP501	C-1
TP503	D-1
TP601	B-4





TBC-8—COMPONENT SIDE—

1-622-549-17
 BVW-60 BVW-70
 BVW-65 BVW-75
 BVW-95 BVW-96



TBC-8—SOLDERING SIDE—

1-622-549-17
 BVW-60 BVW-70
 BVW-65 BVW-75
 BVW-95 BVW-96

TBC-9; TIME BASE CORRECTOR
NR-25; Y DIGITAL NOISE REDUCTION

TBC-9 (1-622-550-13)

REF. NO.	TYPE	PIN. NO				
		+12V	+5V	GND	-5V	-12V
IC 1	TC74HC00F	1	14	7		
IC 2	CX20061		2	5		
IC 4	CXD1216M		16	16		
IC 5	TC4053BF		16	7,8		
IC 6	CX7930A		28	14		
IC 7	TC74HC221F		16	8		
IC 8	TC74HC74F		14	7		
IC 9	TC74HC221F		16	8		
IC 10	CX7930A		28	14		
IC 11	TC74HC86F		14	7		
IC 12	TL082CPS	8	16	8		4
IC 13	SN74LS123NS		14	7		8
IC 14	NJM1496M		2	3		
IC 16	TC74HC32F		14	7		
IC 17	μPC393G2		2	3		
IC 18	TL082CPS		16	8		4
IC 19	TC74HC123F		14	7		
IC 20	TL431CLPB		2	3		
IC 21	CX7998		2	16		
IC 22	CXD1024Q		27.61	1.11.44		
IC 23	CX7930A		28	14		
IC 24	CX20162		28	14		
IC 25	74F74PC		14	7		
IC 26	TC74HC08F		14	7		
IC 27	TC74HC74F		14	7		
IC 28	TC74HC04F		14	7		
IC 29	TC74HC244F		20	10		
IC 30	SN74LS164NS		14	7		
IC 31	MC10H124M		9	16	8	
IC 32	TC74HC244F		20	10		
IC 33	TC74HC123F		16	8		
IC 34	SN74LS11NS		14	7		
IC 35	TC74HC86F		14	7		
IC 36	SN74LS164NS		14	7		
IC 37	TL431CLPB		*	*	*	*
IC 38	TC74HC74F		14	7		
IC 40	TC74HC74F		14	7		
IC 41	SN74LS221NS		16	8		
IC 42	SN74LS221NS		16	8		
IC 200	MB4002PF	8		1		*
IC 201	TL082CPS			1		4
IC 202	TL061CPS			1		5
IC 203	μPC319G2		11	3,8		6
IC 204	TC74HC221F		16	8		

* REFER TO SCHEMATIC

NR-25 (1-624-023-12)

REF. NO.	TYPE	PIN NO.	
		+5V	GND
IC 701	CXD1328Q	33.73	12.52
IC 702	CXK1202S	28	14
IC 703	CXK1202S	28	14
IC 704	CXK1202S	28	14
IC 705	SN74HC161NS	16	8
IC 706	SN74HC161NS	16	8
IC 707	SN74HC240NS	20	10

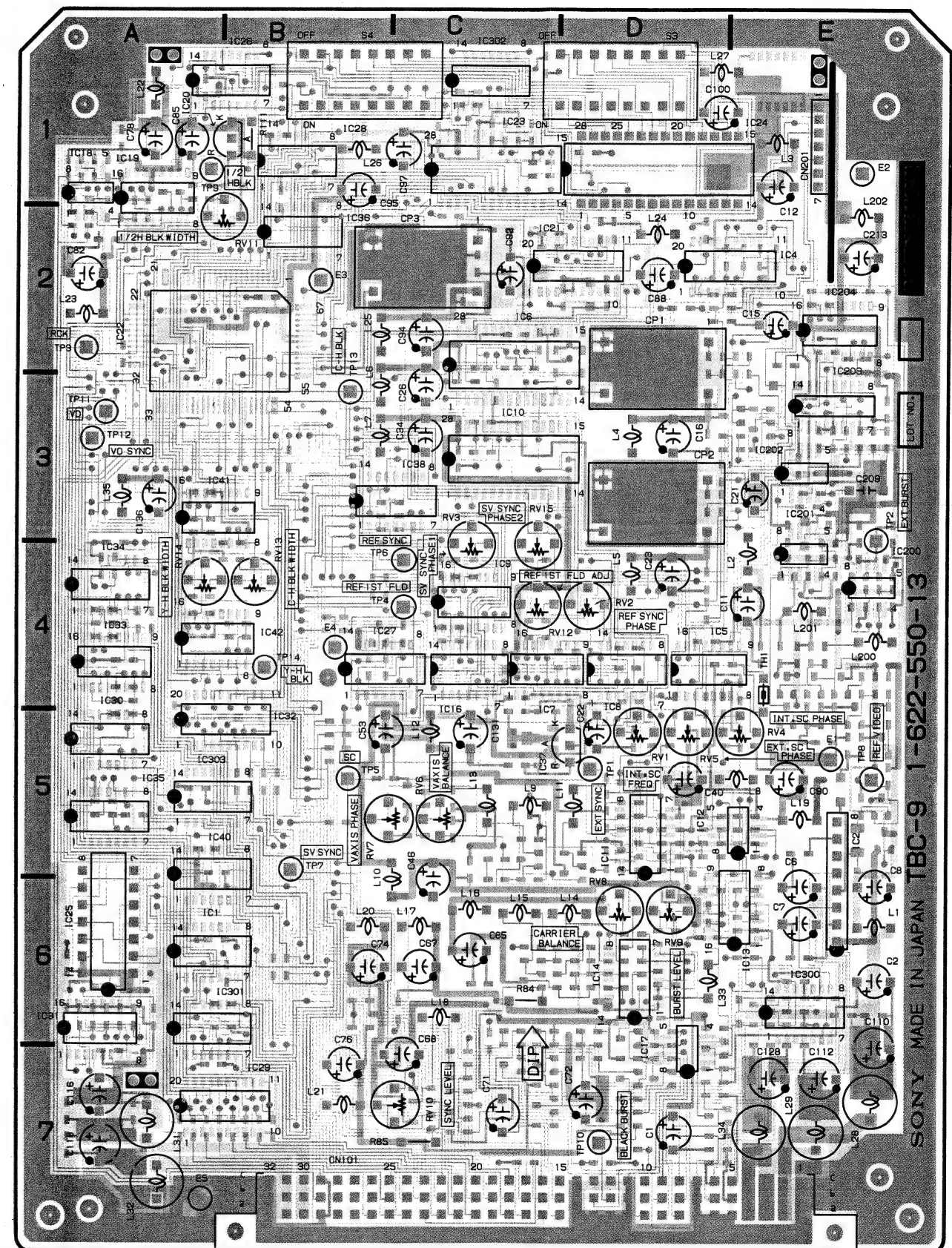
NR-25 (1-624-023-12)

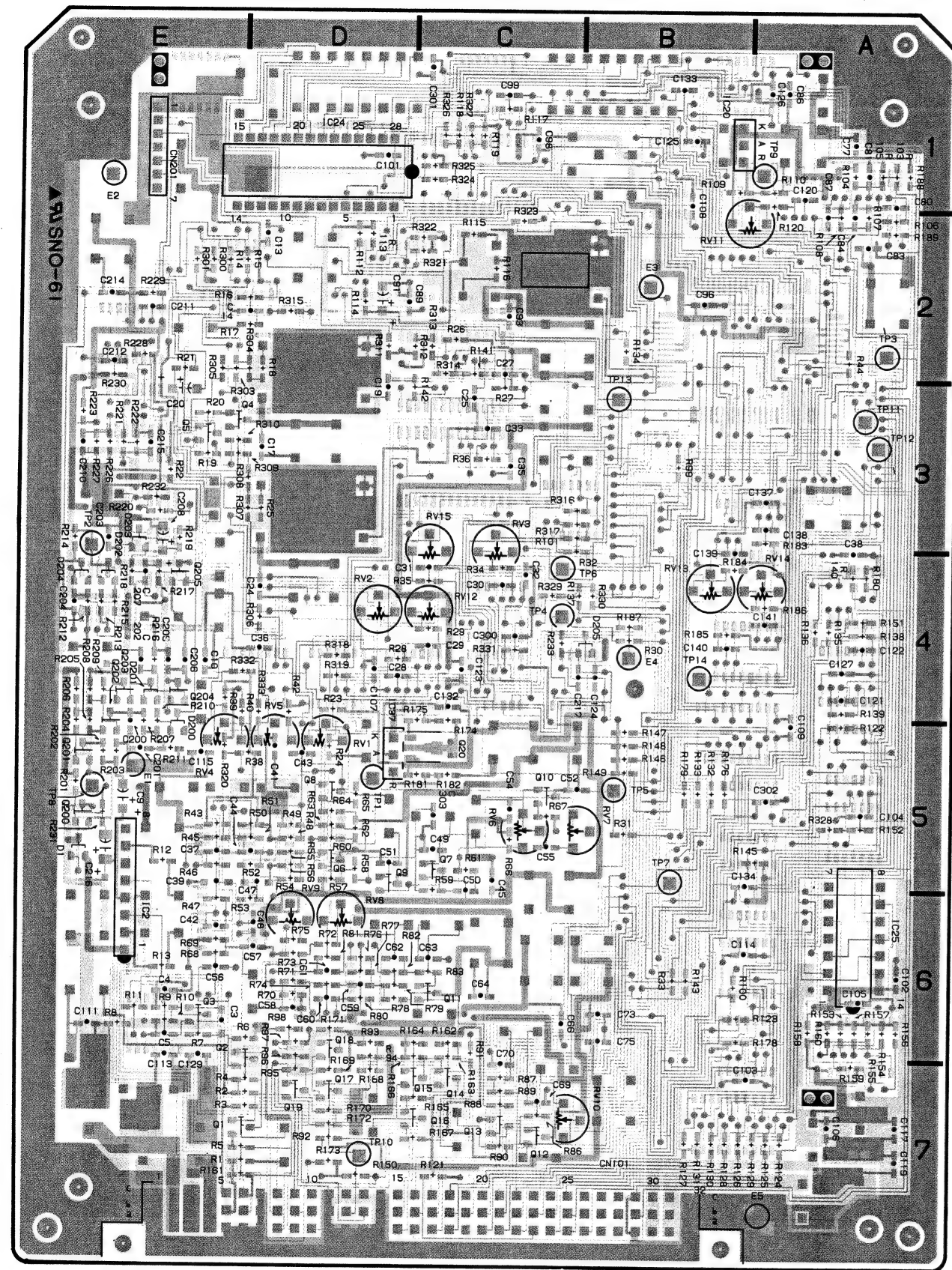
CN701	B-3
D701	C-2
D702	C-3
EP701	C-2
IC701	A-2
IC702	B-1
IC703	C-1
IC704	C-2
IC705	B-3
IC706	C-3
IC707	B-2

TP701	A-1
TP702	A-2
TP703	A-2
TP704	A-2

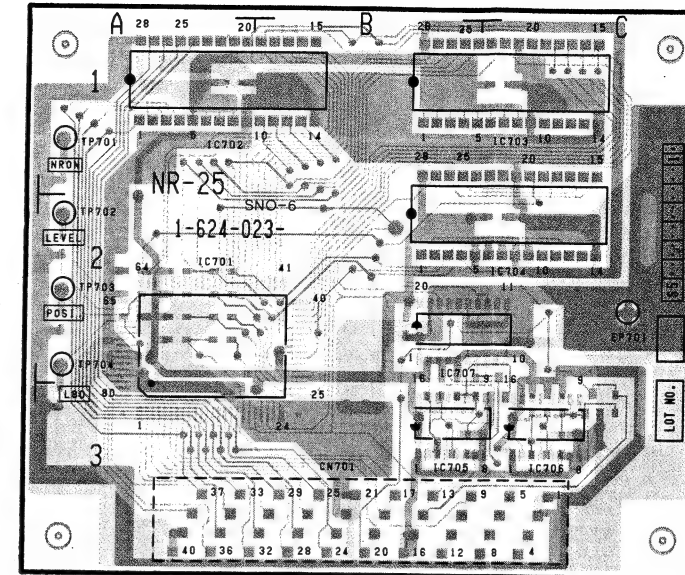
TBC-9 (1-622-550-13)

CN101	C-7	IC300	E-6
CN201	E-1	IC301	A-6
		IC302	C-1
		IC303	A-5
CP1	D-3	Q1	E-7
CP2	D-3	Q2	E-7
CP3	C-2	Q3	E-6
		Q4	E-3
D1	E-5	Q5	E-3
D200	E-5	Q6	D-5
D201	E-5	Q7	D-6
D202	E-4	Q8	D-5
D203	E-4	Q9	D-6
D204	E-4	Q10	C-5
D205	B-4	Q11	D-6
		Q12	C-7
E1	E-1	Q13	C-7
E2	C-4	Q14	C-7
E3	A-3	Q15	D-7
E4	D-7	Q16	D-7
E5	B-7	Q17	D-7
		Q18	D-7
		Q19	D-7
IC1	E-6	Q20	D-5
IC2	E-6	Q200	E-5
IC4	E-2	Q201	E-5
IC5	E-4	Q202	E-5
IC6	C-3	Q203	E-5
IC7	D-4	Q204	E-5
IC8	D-4	Q205	E-4
IC9	C-4		
IC10	C-3		
IC11	D-5		
IC12	E-5		
IC13	E-6		
IC14	D-6	RV1	D-5
IC16	A-6	RV2	D-4
IC17	D-7	RV3	C-4
IC18	A-2	RV4	E-5
IC19	A-2	RV5	D-5
IC20	B-1	RV6	C-5
IC21	D-2	RV7	C-5
IC22	B-2	RV8	D-6
IC23	C-1	RV9	D-6
IC24	D-1	RV10	C-7
IC25	A-6	RV11	B-2
IC26	B-1	RV12	D-4
IC27	A-5	RV13	B-4
IC28	B-1	RV14	B-4
IC29	B-7	RV15	C-3
IC30	A-4		
IC31	A-6	S3	D-1
IC32	B-4	S4	C-1
IC33	C-4		
IC34	A-3	TH1	E-4
IC35	A-5		
IC36	B-2	TP1	D-5
IC37	D-5	TP2	E-4
IC38	C-3	TP3	B-3
IC40	A-5	TP4	D-4
IC41	B-3	TP5	B-5
IC42	B-4	TP6	C-4
IC200	E-4	TP7	B-6
IC201	E-4	TP8	E-5
IC202	E-3	TP9	B-1
IC203	E-3	TP10	D-7
IC204	E-2	TP11	A-3
		TP12	A-3

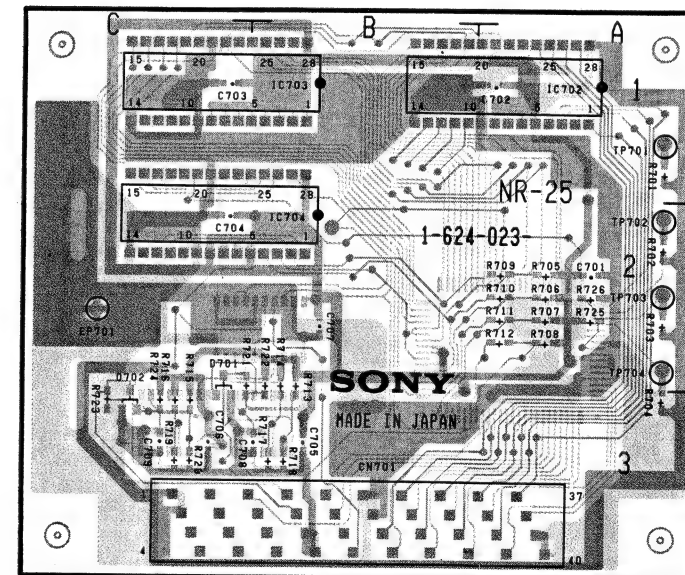
TP13 B-3
TP14 B-4TBC-9 - COMPONENT SIDE -
1-622-550-13
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96



TBC-9 -SOLDERING SIDE-
 1-622-550-13
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96



NR-25 -COMPONENT SIDE-
 1-624-023-12
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96



NR-25 -SOLDERING SIDE-
 1-624-023-12
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96

EN-48; C ENCODER

EN-48 (1-622-546-14, 15)

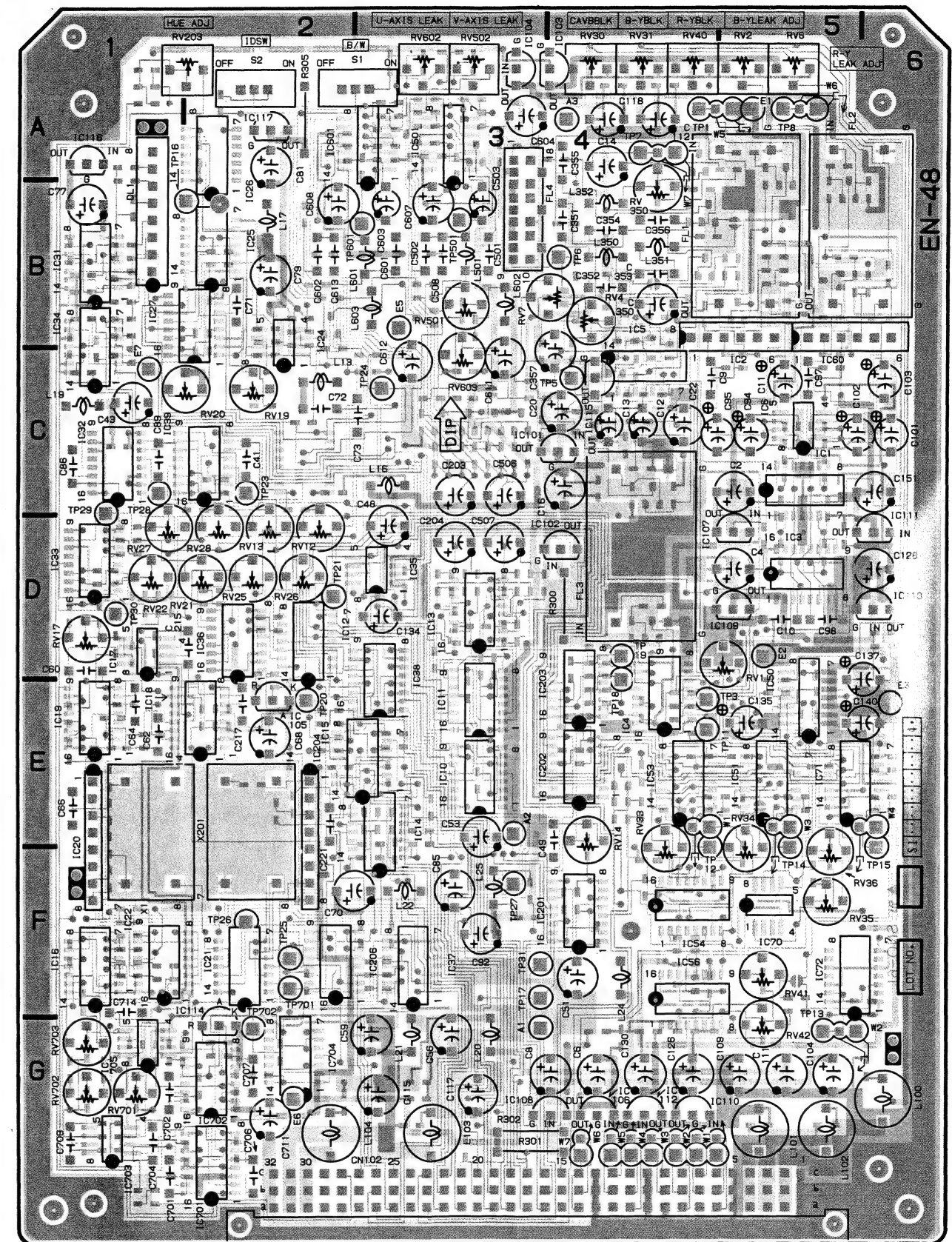
REF. NO.	TYPE	PIN NO.							
		+12V	+9V	+8V	+5V	GND	-5V	-8V	-12V
IC 1	MC34184M			4	6	8	1	11	
IC 2	VA UNIT						7		
IC 3	MC145038F		16		16	2.10	5		
IC 4	CX20017				12	5.7.10	1		
IC 5	CX20158							4	
IC 6	TL082CPS			8					
IC 10	MC10H124M				9	16	8		
IC 11	MC10H131M				14	1.16	8		
IC 12	SN74LS00NS					7			
IC 13	MC10H113M					1.16	8		
IC 14	TC74HC04F				14	7			
IC 15	MC74HC11F				14	7			
IC 16	SN74LS74ANS				14	7			
IC 17	MC34182M	8						4	
IC 18	TC74HC123F				16	8			
IC 19	SN74LS221NS				16	8			
IC 20	CX23065				5	7			
IC 21	SN74LS04NS				14	7			
IC 22	SN74LS163ANS				16	8			
IC 24	MB4002PF	8					4		
IC 25	SN74LS74ANS				14	7			
IC 26	SN74LS06NS				14	7			
IC 27	SN74LS221NS				16	8			
IC 31	SN74LS74NS				14	7			
IC 32	SN74LS221NS				16	8			
IC 33	SN74LS221NS				16	8			
IC 34	TC74HC74F				14	7			
IC 35	TL082CPS			8			4		
IC 36	SN74LS221NS				16	8			
IC 37	SN74LS32NS				14	7			
IC 38	TC4053BF				16	8	7		
IC 39	TC74HC221F				16	8			
IC 50	MC34184M				4		11		
IC 51	CX20158				12	5.7.10	1		
IC 52	VA UNIT				6		1		
IC 53	CX20158				12	5.7.10	1		
IC 54	TC14053BF				16	8			
IC 55	VA UNIT				6		1		
IC 60	VA UNIT				6		1		
IC 70	MC34182M				8		4		
IC 71	CX20158				12	5.7.10			
IC 72	CX20158				14	5.7.10	1		
IC 101	NJM78L09A	*	*	*	*	*	*	*	*
IC 102	NJM78L05A	*	*	*	*	*	*	*	*
IC 103	S-81230AG	*	*	*	*	1	*	*	*
IC 104	S-80230AG	*	*	*	*	1	*	*	*
IC 105	TL431CLPB	*	*	*	*	*	*	*	*
IC 106	NJM78L05A	*	*	*	*	*	*	*	*
IC 107	NJM78L08A	*	*	*	*	*	*	*	*
IC 108	NJM78L05A	*	*	*	*	*	*	*	*
IC 109	NJM78L08A	*	*	*	*	*	*	*	*
IC 110	NJM78L05A	*	*	*	*	*	*	*	*
IC 111	NJM78L08A	*	*	*	*	*	*	*	*
IC 112	NJM78L05A	*	*	*	*	*	*	*	*
IC 113	NJM78L08A	*	*	*	*	*	*	*	*
IC 114	TL431CLPB	*	*	*	*	*	*	*	*
IC 201	MC10H124M			9	16	8			
IC 202	MC10H131M					1.16	8		
IC 203	MC10H113M					1.16	8		
IC 204	CX23065				5				
IC 206	SN74LS163ANS				16	8			
IC 501	NJM1496M							14	
IC 601	NJM1496M							14	
IC 701	TC74HC123F		*			8			
IC 702	SN74LS123NS		*			8			
IC 703	MC34182M	8						4	
IC 704	SN74LS74ANS		*			7			
IC 705	MC34182M	8						4	

* REFER TO SCHEMATIC

EN-48 (1-622-546-14, 15)

CN102	G-3	IC115	C-4
D1	B-1	IC116	A-1
DL1	B-1	IC117	A-2
E1	A-5	IC127	D-2
E2	D-5	IC201	F-4
E3	E-6	IC202	E-4
E5	B-3	IC203	D-4
E6	G-2	IC204	E-2
E7	B-1	IC206	F-2
FL1	B-5	IC501	A-3
FL2	B-6	IC601	A-3
FL3	D-4	IC701	G-2
FL4	A-4	IC702	G-2
		IC703	G-1
		IC704	G-2
		IC705	G-1
IC1	C-5	Q1	A-5
IC2	B-5	Q2	B-5
IC3	D-5	Q3	D-4
IC4	D-4	Q4	B-4
IC5	B-4	Q6	B-6
IC6	C-5	Q7	B-5
IC10	E-3	Q8	B-5
IC11	D-3	Q9	B-4
IC12	D-2	Q10	B-4
IC13	D-3	Q11	A-5
IC14	E-3	Q13	E-4
IC15	E-3	Q14	E-5
IC16	F-1	Q15	B-4
IC17	D-1	Q17	B-5
IC18	E-2	Q18	A-5
IC19	E-1	Q25	B-1
IC20	E-1	Q501	B-3
IC21	F-2	Q502	A-4
IC22	F-1	Q503	C-3
IC24	B-2	Q504	C-4
IC25	B-2	Q601	B-3
IC26	A-2	Q602	A-3
IC27	B-2	Q603	A-4
IC31	B-1	Q604	C-3
IC32	C-1	Q605	C-3
IC33	D-1	RV1	C-5
IC34	B-1	RV2	A-5
IC35	D-3	RV4	A-4
IC36	D-2	RV6	A-5
IC37	F-3	RV7	B-3
IC38	D-3	RV12	C-2
IC39	C-2	RV13	C-2
IC50	D-5	RV14	E-4
IC51	E-5	RV17	D-1
IC53	E-5	RV19	C-2
IC54	E-5	RV20	C-2
IC56	E-5	RV21	D-2
IC60	B-6	RV22	D-1
IC70	E-5	RV25	D-2
IC71	E-6	RV26	D-2
IC72	F-6	RV27	C-2
IC101	C-4	RV28	C-2
IC102	D-4	RV30	A-4
IC103	A-4	RV31	A-4
IC104	A-4	RV33	F-5
IC105	D-2	RV34	F-5
IC106	G-4	RV35	F-5
IC107	C-5	RV36	E-5
IC108	G-4	RV40	A-4
IC109	D-5	RV41	F-6
IC110	G-5	RV42	F-5
IC111	C-6	RV203	A-2
IC112	G-4	RV350	B-2
IC113	D-6	RV501	B-3
IC114	F-2	RV502	A-3

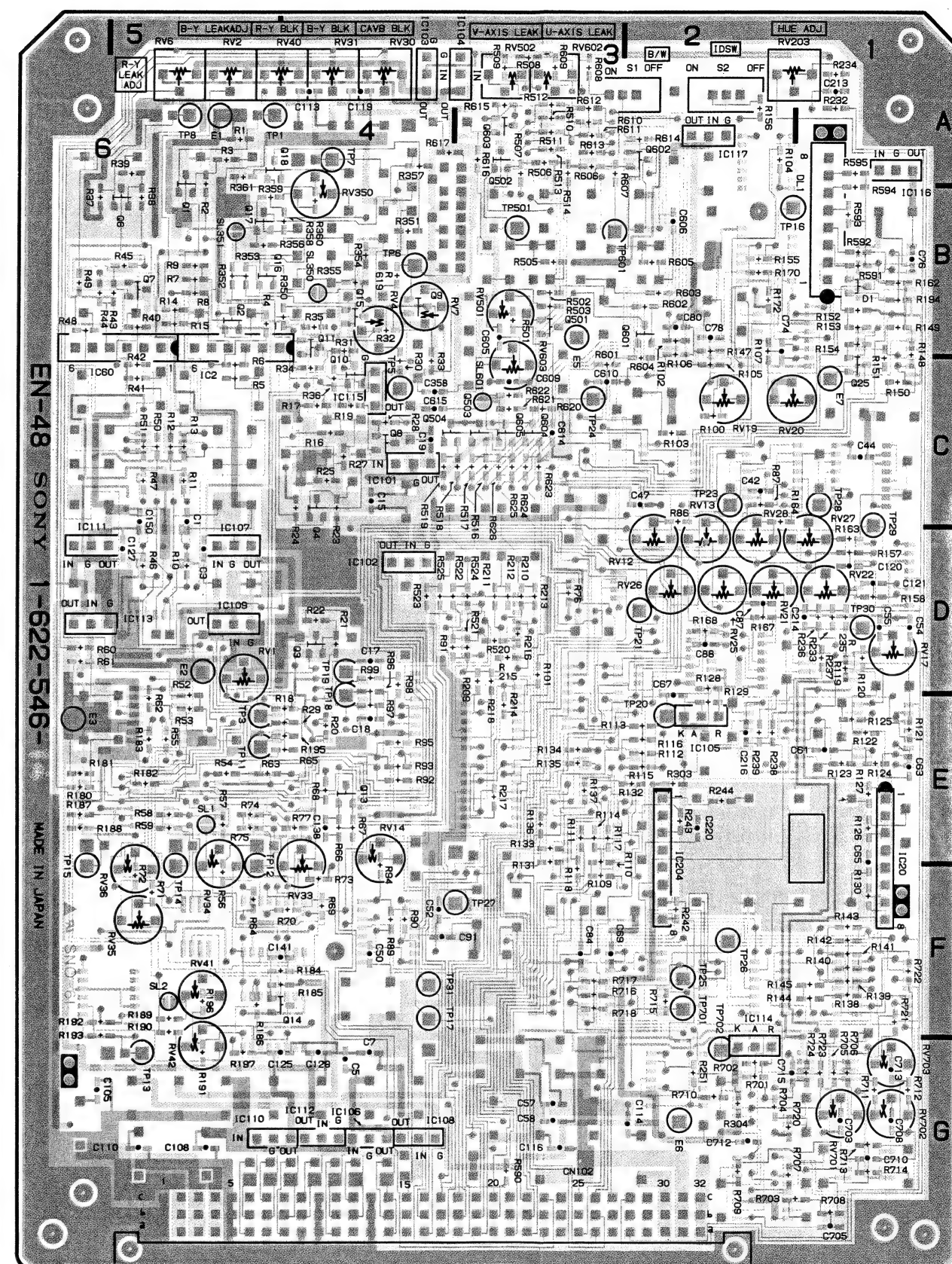
RV602	A-3
RV603	C-3
RV701	G-1
RV702	G-1
RV703	G-1
S1	A-3
S2	A-2
SL1	F-5
SL2	E-6
SL350	C-4
SL351	C-4
SL601	C-3
TP1	A-5
TP3	D-5
TP5	B-5
TP6	B-4
TP7	A-4
TP8	A-5
TP11	E-5
TP12	F-5
TP13	F-5
TP14	F-5
TP15	E-6
TP16	A-2
TP17	F-4
TP18	D-4
TP19	D-4
TP20	D-2
TP21	D-2
TP23	C-2
TP24	C-3
TP25	F-2
TP26	F-2
TP27	F-4
TP28	C-1
TP29	C-1
TP30	D-1
TP31	F-4
TP501	B-3
TP601	B-3
TP701	F-2
TP702	F-2
X1	E-1
X201	E-2



EN-48—COMPONENT SIDE—

1-622-546-14, 15
BVW-60 BVW-70
BVW-65 BVW-75
BVW-95 BVW-96

17-68



17-69

VO-18; VIDEO OUTPUT
DUS-270; SQUELCH BUFFER

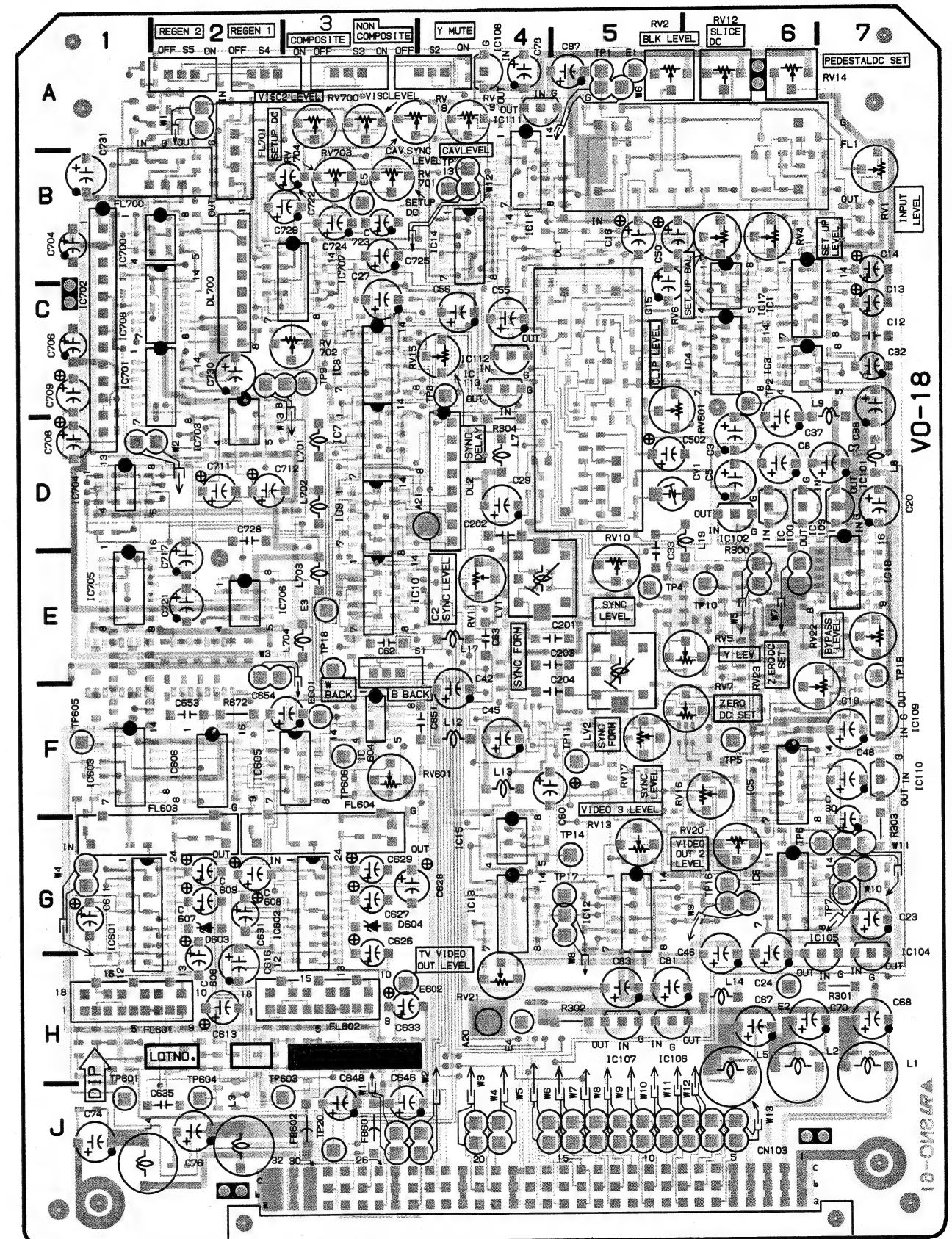
VO-18 (1-622-547-15, 16)

REF. NO.	TYPE	PIN NO.							
		+12V	+9V	+8V	+5V	GND	-5V	-8V	-12V
IC 1	MC34184M	8		4	12.14	1 5.7.10 12.14 5.7.10.12 14 7 7 7	1 1 1	11	5
IC 3	TL610CPS								
IC 4	CX20158								
IC 5	CX20158								
IC 6	CX20158								
IC 7	TC74HC00F								
IC 8	SN74LS06NS								
IC 9	TC74HC08F								
IC 10	TC74HC04F								
IC 12	CX20158	8			12.14 14	5.7.10 5.7.10.12	1 1 7 4 * * * * * * * * * * * *		4
IC 13	CX20158								
IC 15	TL082CPS								
IC 16	MC14053BF								
IC 17	MC34182M								
IC 100	NJM78L05A								
IC 101	NJM78L08A								
IC 102	NJM79L05A								
IC 103	NJM79L08A								
IC 104	NJM78L05A								
IC 105	NJM79L05A								
IC 106	NJM78L05A								
IC 107	NJM79L05A								
IC 108	S-80230AG								
IC 109	NJM78L08A								
IC 110	NJM79L05A								
IC 111	S-81230AG								
IC 112	NJM78L05A								
IC 113	NJM79L05A								
IC 601	CX20111				14 8 14 16 14 8	1.11.13.17 7 7 8 1 7 6	* * * * * * * * * 4		
IC 602	CX20111								
IC 603	TC4030BF								
IC 604	NJM4558M								
IC 605	TC50403BF								
IC 606	TC4538BF								
IC 700	MB4002PF								
IC 701	SN74LS00NS								
IC 702	BX381								
IC 703	MC34182M								
IC 704	μPC393G2	8			16	8 1 5.7.10 7	1		5
IC 705	TC74HC123F								
IC 706	TL610CPS								
IC 707	CX20158								
IC 708	SN74LS04NS				14	7			

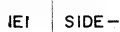
* REFER TO SCHEMATIC

VO-18 (1-622-547-15, 16)

CN103	J-3	IC604	F-3	RV4	B-6
CV1	D-5	IC605	F-3	RV5	B-6
D1	E-3	IC606	F-2	RV6	B-6
D601	H-2	IC700	B-1	RV7	F-6
D602	H-3	IC701	C-2	RV9	A-4
D603	G-3	IC702	C-1	RV10	E-5
D604	G-3	IC703	D-2	RV11	E-4
D605	F-3	IC704	D-1	RV12	A-6
D652	F-3	IC705	E-1	RV13	G-5
		IC706	E-2	RV14	A-6
		IC707	B-3	RV15	C-4
		IC708	C-2	RV16	F-6
DL1	B-5			RV17	F-5
DL2	D-4	LV1	E-4	RV19	A-3
DL700	B-2	LV2	F-5	RV20	G-6
E1	A-5	Q1	A-5	RV21	H-4
E2	H-6	Q2	B-6	RV22	E-7
E3	E-3	Q3	A-6	RV23	E-6
E4	H-4	Q4	B-7	RV501	C-5
E5	B-3	Q5	B-7	RV601	F-3
FB01	F-3	Q6	D-5	RV700	A-3
FB02	H-3	Q7	E-5	RV701	B-3
		Q8	E-6	RV702	C-3
		Q9	E-6	RV703	B-3
		Q10	E-6	RV704	B-3
FL1	B-6	Q11	F-5		
FL601	H-1	Q12	F-6	S1	E-3
FL601	H-3	Q14	E-6	S2	A-4
FL603	G-1	Q15	E-5	S3	A-3
FL604	G-3	Q16	F-5	S4	A-2
FL700	B-1	Q17	F-5	S5	A-2
FL701	A-2	Q18	F-5		
		Q19	G-5	SL1	E-3
		Q20	F-5	SL2	E-3
		Q21	B-5	SL3	E-3
		Q22	B-5	SL700	C-2
		Q25	A-4	SL701	C-2
		Q26	B-5		
		Q27	G-5	TP1	A-5
		Q28	G-5	TP2	C-6
		Q29	G-4	TP4	E-5
		Q30	F-4	TP5	F-6
		Q31	E-4	TP6	G-6
		Q32	D-4	TP7	G-7
		Q33	E-7	TP8	C-4
		Q35	E-6	TP9	C-3
		Q36	E-6	TP10	E-6
		Q37	E-6	TP11	F-5
		Q38	F-6	TP13	B-4
		Q39	E-7	TP14	G-5
		Q40	C-3	TP16	G-6
		Q501	C-5	TP17	G-5
		Q502	C-5	TP18	E-3
		Q503	C-5	TP19	E-7
		Q504	C-5	TP20	J-3
		Q601	H-2	TP601	J-1
		Q603	H-3	TP603	J-2
		Q604	H-1	TP604	J-2
		Q605	J-2	TP605	F-1
		Q606	F-2	TP606	F-3
		Q700	A-1		
		Q701	A-1		
		Q702	B-2		
		Q703	A-2		
		Q704	C-3		
		RV1	B-7		
		RV2	A-5		



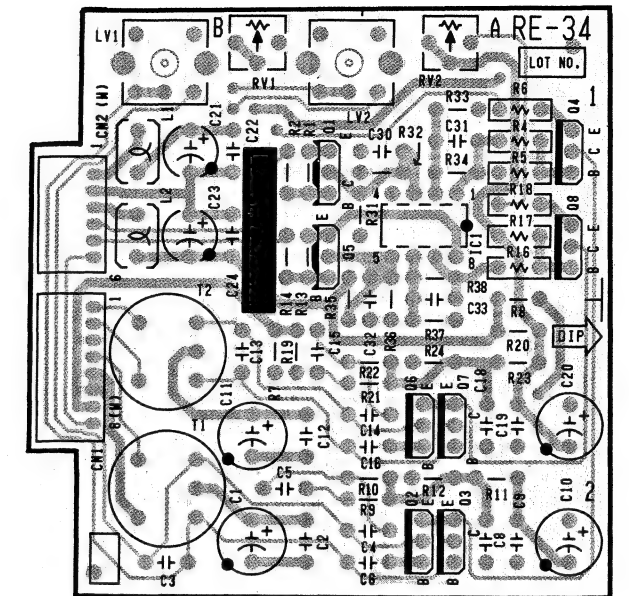
VO-18—COMPONENT SIDE—
1-622-547-15, 16
BVW-70
BVW-75
BVW-96



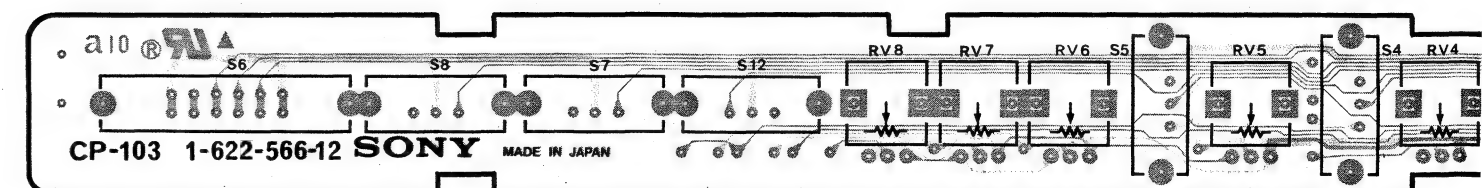
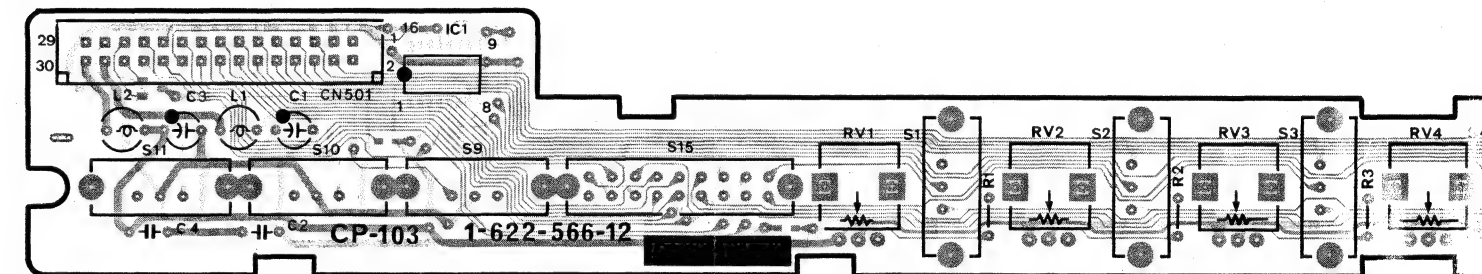
RE-34; ROTARY ERASE
CP-103; SUB CONTROL PANEL

RE-34 (1-622-552-12)

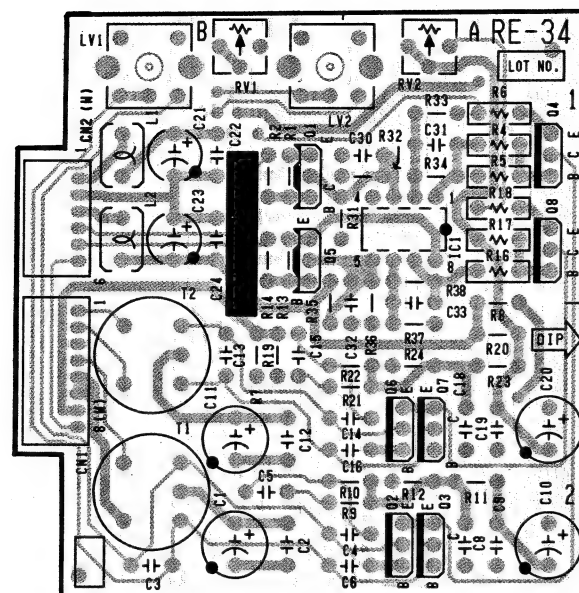
CN1	B-2
CN2	B-1
IC1	A-1
LV2	B-1
Q1	B-1
Q2	A-2
Q3	A-2
Q4	A-1
Q5	B-1
Q6	A-2
Q7	A-2
Q8	A-1
RV1	B-1
RV2	A-1
T1	B-2
T2	B-2



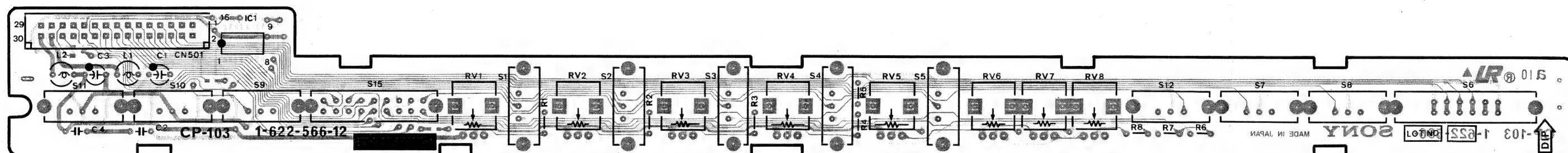
RE-34 - COMPONENT SIDE -
1-622-552-12
BVW-70
BVW-75
BVW-96



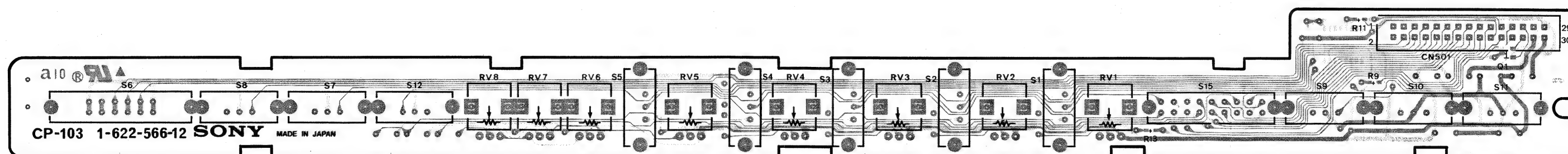
RE-34; ROTARY ERASE
CP-103; SUB CONTROL PANEL



RE-34 -COMPONENT SIDE-
1-622-552-12
BVW-70
BVW-75
BVW-96



CP-103 -COMPONENT SIDE-
1-622-566-12
BVW-70
BVW-75
BVW-96



CP-103 -SOLDERING SIDE-
1-622-566-12
BVW-70
BVW-75
BVW-96

CP-101; VIDEO/AUDIO INPUT

CP-101 (1-622-570-11)

REF. NO	TYPE	PIN NO.				
		+12V	+5V	GND	-5V	-12V
IC 1	CX20158			5.7.9.10	1	
IC 2	CX20158		11.14	5.7.9.10	1	
IC 101	NE5532P	8				4
IC 102	NE5532P	8				4
IC 201	NE5532P	8				4
IC 301	NE5532P	8				4
IC 302	NE5532P	8				4
IC 401	NE5532P	8				4

CP-101 (1-622-570-11)

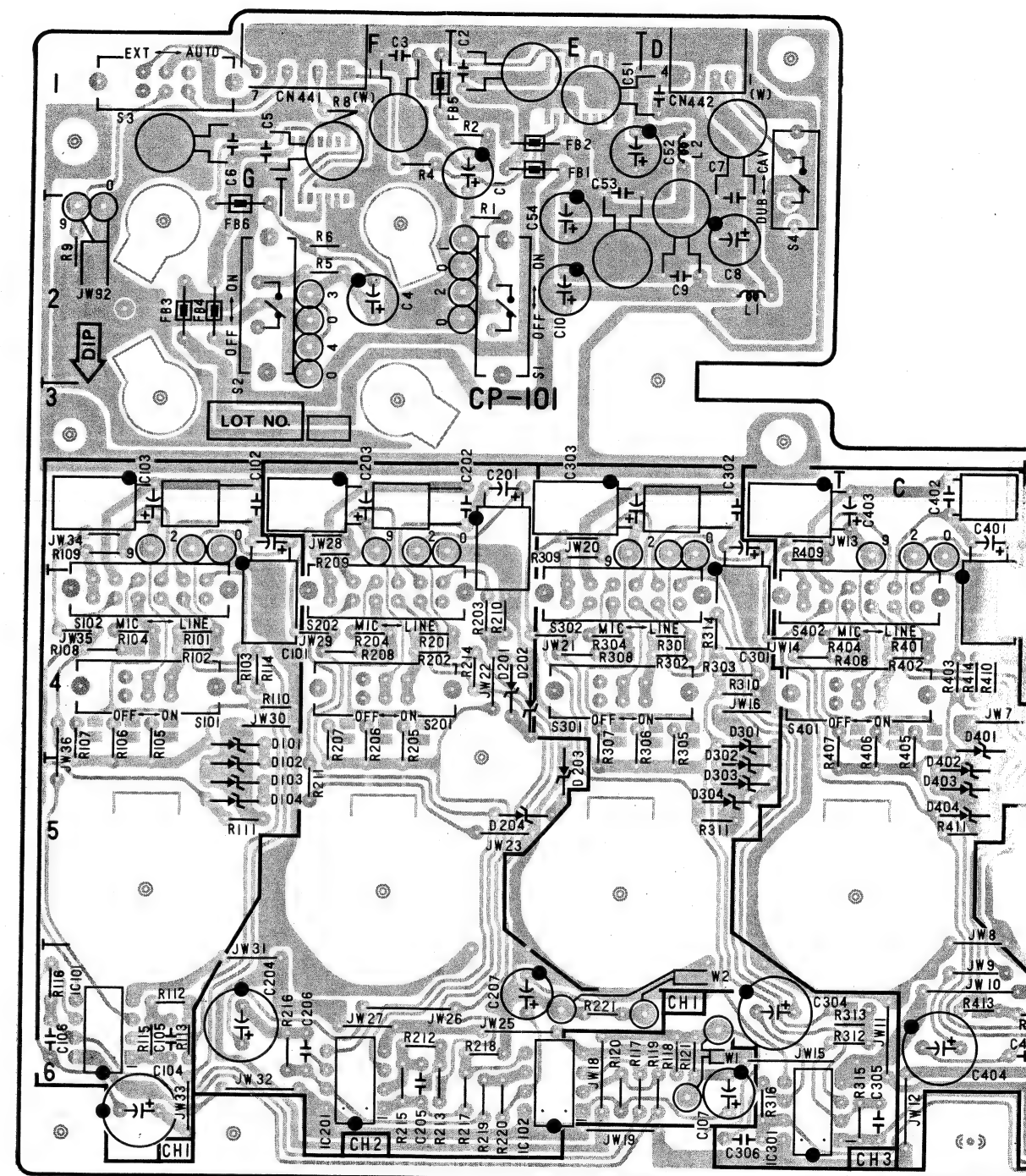
CN441 F-1
CN442 D-1
CN443 A-6
CN444 A-4

D101 G-4
D102 G-5
D103 G-5
D104 G-5
D201 E-4
D202 E-4
D203 E-5
D204 E-5
D301 D-4
D302 D-4
D303 D-3
D304 D-3
D401 C-4
D402 C-4
D403 C-5
D404 C-5

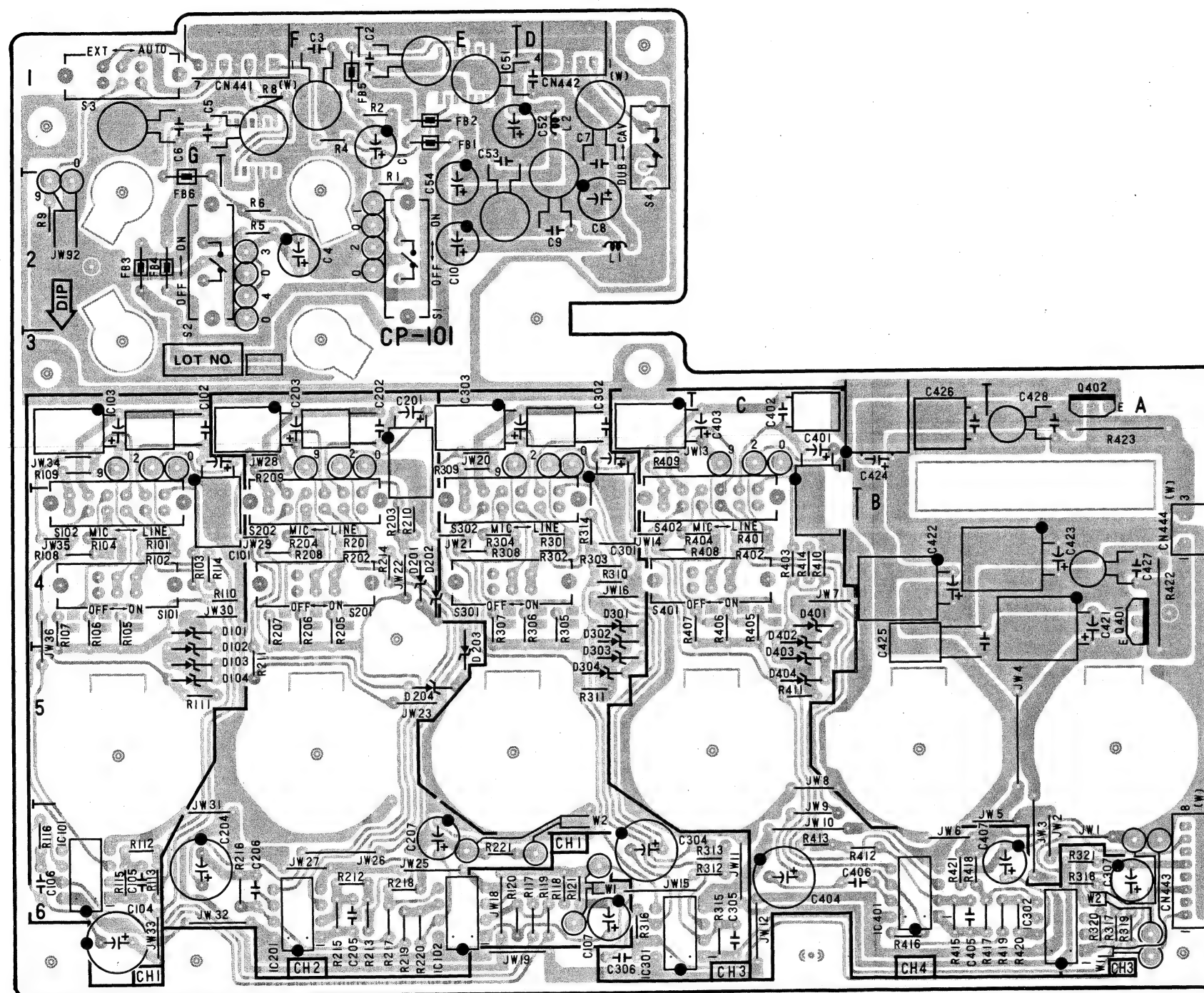
IC1 E-6
IC2 F-1
IC101 G-6
IC102 E-6
IC201 F-6
IC301 D-6
IC302 A-6
IC401 B-6

Q401 A-4
Q402 A-3

S1 E-2
S2 G-2
S3 G-1
S4 D-1
S101 G-4
S102 G-4
S201 F-4
S202 F-4
S301 E-4
S302 E-4
S401 C-4
S402 C-4



570-11)



CP-101 - COMPONENT SIDE -
1- 622-570-11
BVW-70
BVW-75
BVW-96

BF-28; AUDIO BUFFER/LEVEL DETECTOR
VR-42; AUDIO REC/PB VOLUME

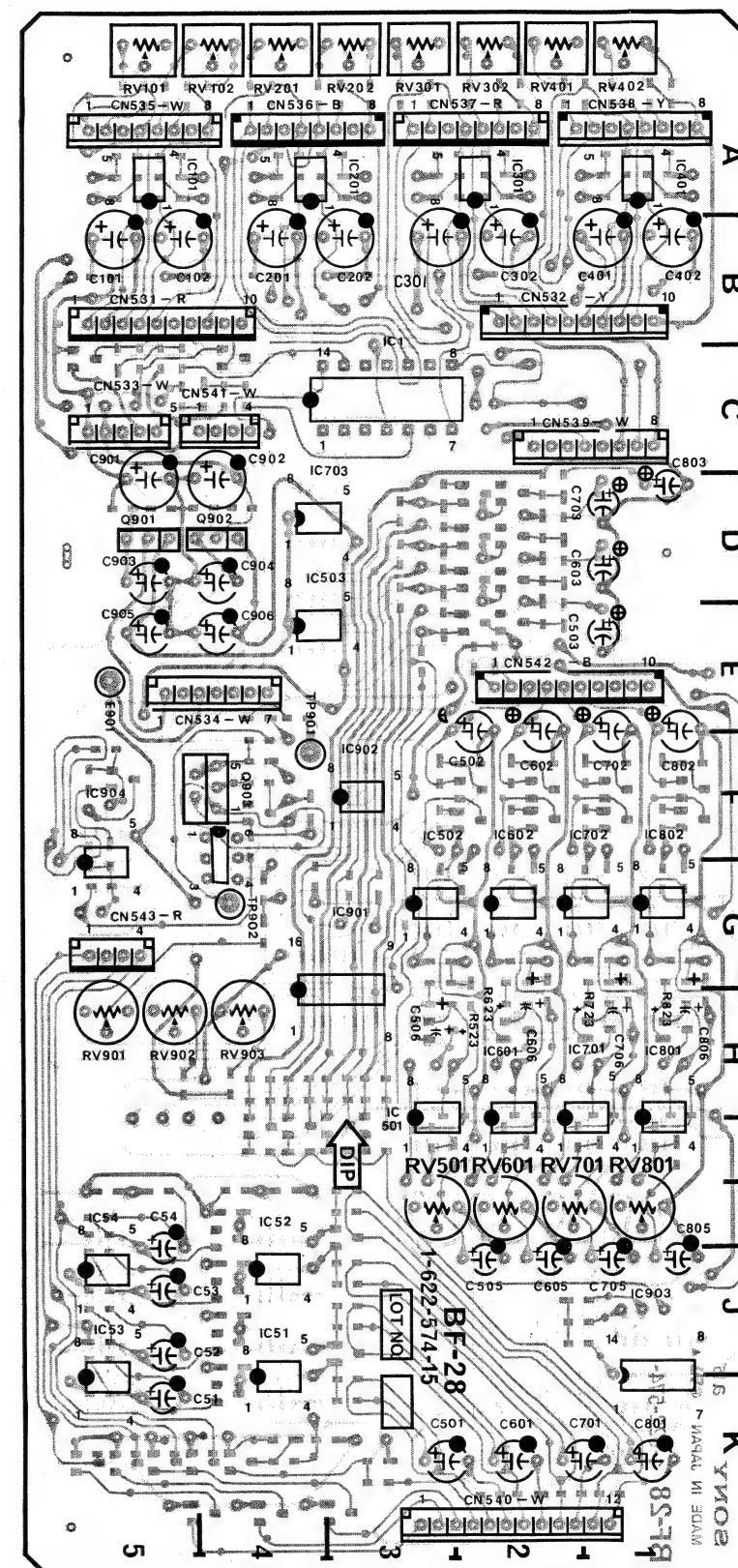
BF-28 (1-622-574-13,14,15)

REF. NO.	TYPE	PIN NO.			
		+12V	+8V	-8V	-12V
IC 1	CX770	*			*
IC 51	NJM2903M	8			4
IC 52	NJM2903M	8			4
IC 53	NJM2903M	8			4
IC 54	NJM2903M	8			4
IC 101	NJM2041M-D	8			4
IC 201	NJM2041M-D	8			4
IC 301	NJM2041M-D	8			4
IC 401	NJM2041M-D	8			4
IC 501	NJM4560M		8	4	
IC 502	NJM4560M		8	4	
IC 503	NJM4560M		8	4	
IC 601	NJM4560M		8	4	
IC 602	NJM4560M		8	4	
IC 701	NJM4560M		8	4	
IC 702	NJM4560M		8	4	
IC 703	NJM4560M		8	4	
IC 801	NJM4560M		8	4	
IC 802	NJM4560M		8	4	
IC 901	BU4052BF		16	8	
IC 902	NJM2041M-D		8	4	
IC 903	TC4030BF		14	7	
IC 904	NJM4560M		8	4	

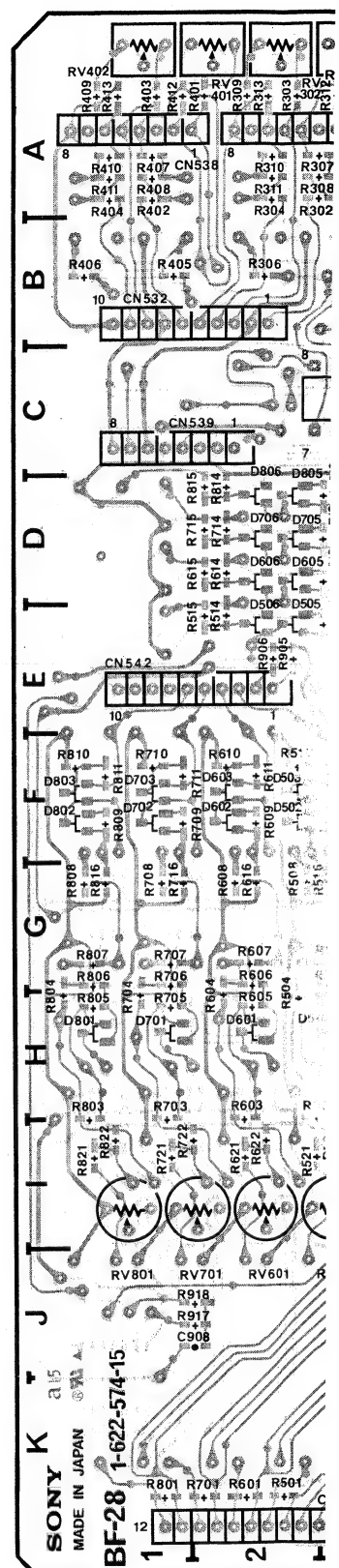
* REFER TO SCHEMATIC

BF-28 (1-622-574-13,14,15)

CN531	B-5	Q1	C-5
CN532	B-2	Q2	C-4
CN533	C-5	Q51	K-4
CN534	E-4	Q52	K-5
CN535	A-5	Q53	K-4
CN536	A-4	Q54	K-5
CN537	A-2	Q55	K-3
CN538	A-1	Q56	K-5
CN539	C-1	Q57	K-4
CN540	K-2	Q58	K-4
CN541	C-4	Q501	I-3
CN542	E-2	Q601	I-3
CN543	G-5	Q701	I-4
		Q801	I-4
		Q901	D-5
D51	J-3	Q902	D-4
D52	I-3	Q903	F-4
D53	K-4		
D54	J-4		
D55	J-4	RV101	A-5
D56	I-4	RV102	A-4
D501	H-3	RV201	A-4
D502	F-2	RV202	A-3
D503	F-2	RV301	A-3
D505	E-2	RV302	A-2
D506	E-2	RV401	A-2
D601	H-2	RV402	A-1
D602	F-2	RV501	I-3
D603	F-2	RV601	I-2
D605	D-2	RV701	I-2
D606	D-2	RV801	I-1
D701	H-1	RV901	H-5
D702	F-1	RV902	H-5
D703	F-1	RV903	H-4
D705	D-2		
D706	D-2	TP901	F-4
D801	H-1	TP902	G-4
D802	F-1		
D803	F-1		
D805	D-2		
D806	D-2		
D901	F-4		
D902	F-5		
E901	E-5		
IC1	C-3		
IC51	J-4		
IC52	J-4		
IC53	J-5		
IC54	J-5		
IC101	A-5		
IC201	A-4		
IC301	A-2		
IC401	A-1		
IC501	H-3		
IC502	G-3		
IC503	E-4		
IC601	H-2		
IC602	G-2		
IC701	H-1		
IC702	G-1		
IC703	D-4		
IC801	H-1		
IC802	G-1		
IC901	G-3		
IC902	F-3		
IC903	J-1		
IC904	F-5		



BF-28—COMPONENT SIDE—

1-622-574-13, 14, 15
BVW-70
BVW-75
BVW-96

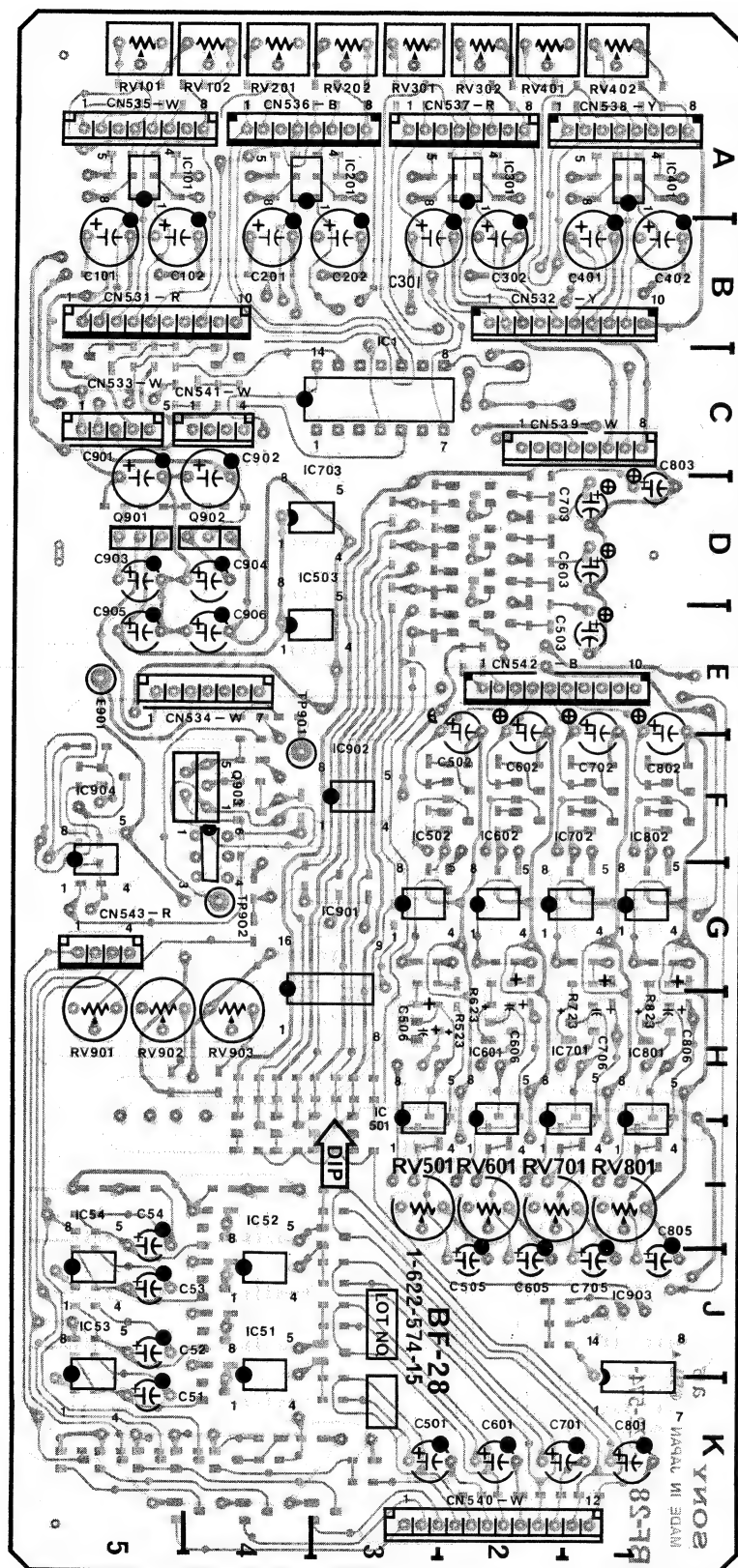
BF-28; AUDIO BUFFER/LEVEL DETECTOR
VR-42; AUDIO REC/PB VOLUME

1-13,14,15

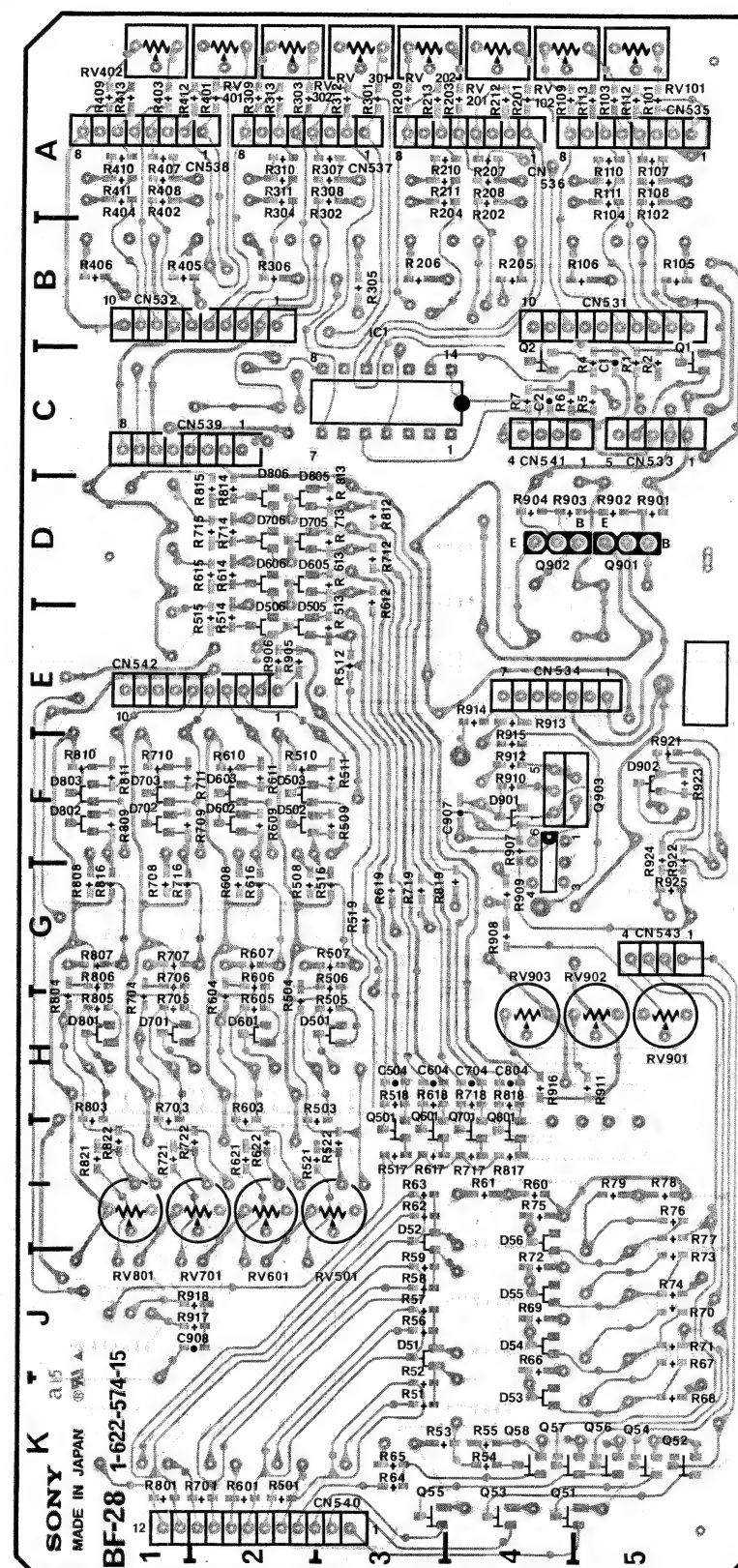
1 C-5
2 C-4
Q51 K-4
Q52 K-5
53 K-4
54 K-5
55 K-3
Q56 K-5
Q57 K-4
58 K-4
501 I-3
501 I-3
Q701 I-4
Q801 I-4
901 D-5
902 D-4
903 F-4

RV101 A-5
V102 A-4
V201 A-4
V202 A-3
RV301 A-3
RV302 A-2
V401 A-2
V402 A-1
V501 I-3
RV601 I-2
RV701 I-2
V801 I-1
V901 H-5
V902 H-5
RV903 H-4

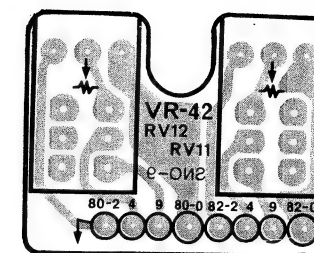
P901 F-4
P902 G-4



BF-28—COMPONENT SIDE—
1-622-574-13, 14, 15
BVW-70
BVW-75
BVW-96



BF-28—SOLDERING SIDE—
1-622-574-13, 14, 15
BVW-70
BVW-75
BVW-96



VR-42—COMPONENT SIDE—
1-622-592-12
BVW-70
BVW-75
BVW-96

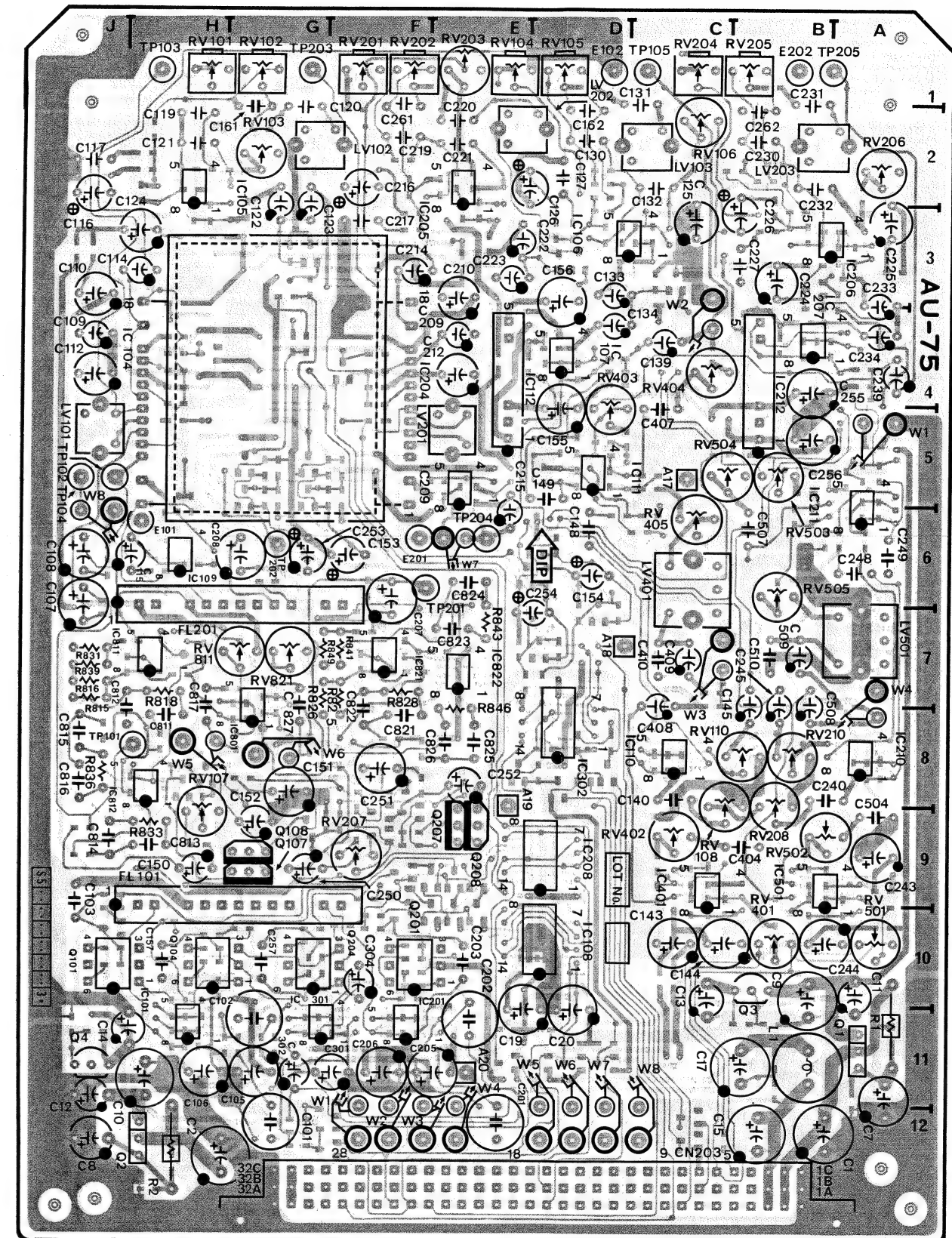
AU-75; LNG AUDIO REC/PB AMPLIFIER

AU-75 (1-622-567-13)

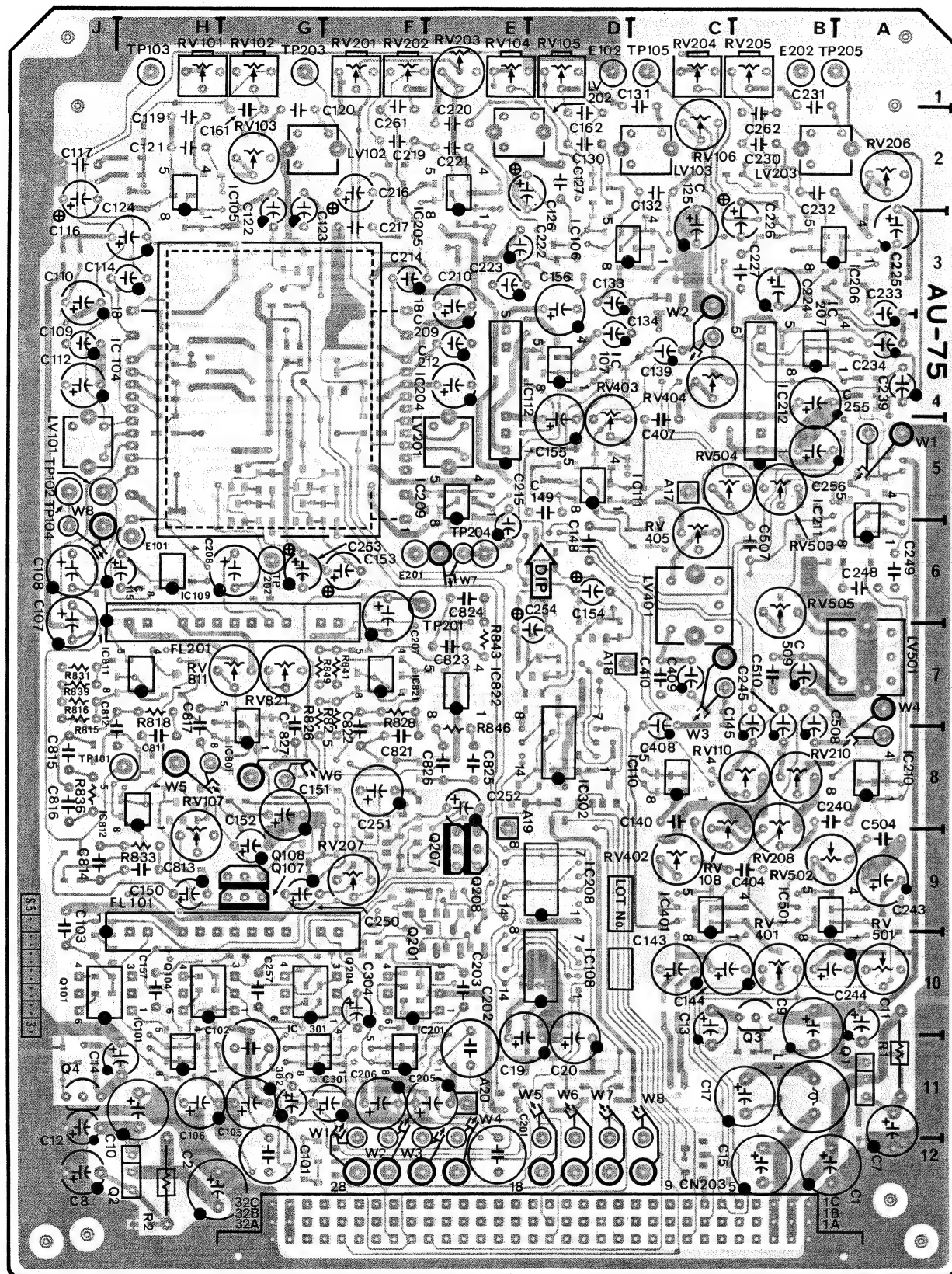
REF. NO.	TYPE	PIN NO.				
		+11V	+7V	GND	-7V	-11V
IC 101	NJM2041M-D	8				4
IC 104	BX1152		12	1.6.18	14	
IC 105	NJM4560M	8				4
IC 106	NJM4560M	8				4
IC 107	NJM4560M	8				4
IC 108	TC4011BF		14		7	
IC 109	NJM5532M	8				4
IC 110	NJM2041M-D	8				4
IC 111	NJM2041M-D	8				4
IC 112	BX1343A	3		5		1
IC 201	NJM2041M-D	8				4
IC 204	BX1152		12	1.6.18	14	
IC 205	NJM4560M	8				4
IC 206	NJM4560M	8				4
IC 207	NJM4560M	8				4
IC 208	TC4011BF		14		7	
IC 209	NJM5532M	8				4
IC 210	NJM2041M-D	8				4
IC 211	NJM2041M-D	8				4
IC 212	BX1343A	3		5		1
IC 301	NJM2041M-D	8				4
IC 302	TC4081BF		14	7		
IC 401	NJM4560M	8				4
IC 501	NJM4560M	8				4
IC 801	NJM2041M-D	8				4
IC 811	NJM2041M-D	8				4
IC 812	NJM2041M-D	8				4
IC 821	NJM2041M-D	8				4
IC 822	NJM2041M-D	8				4

AU-75 (1-622-567-13)

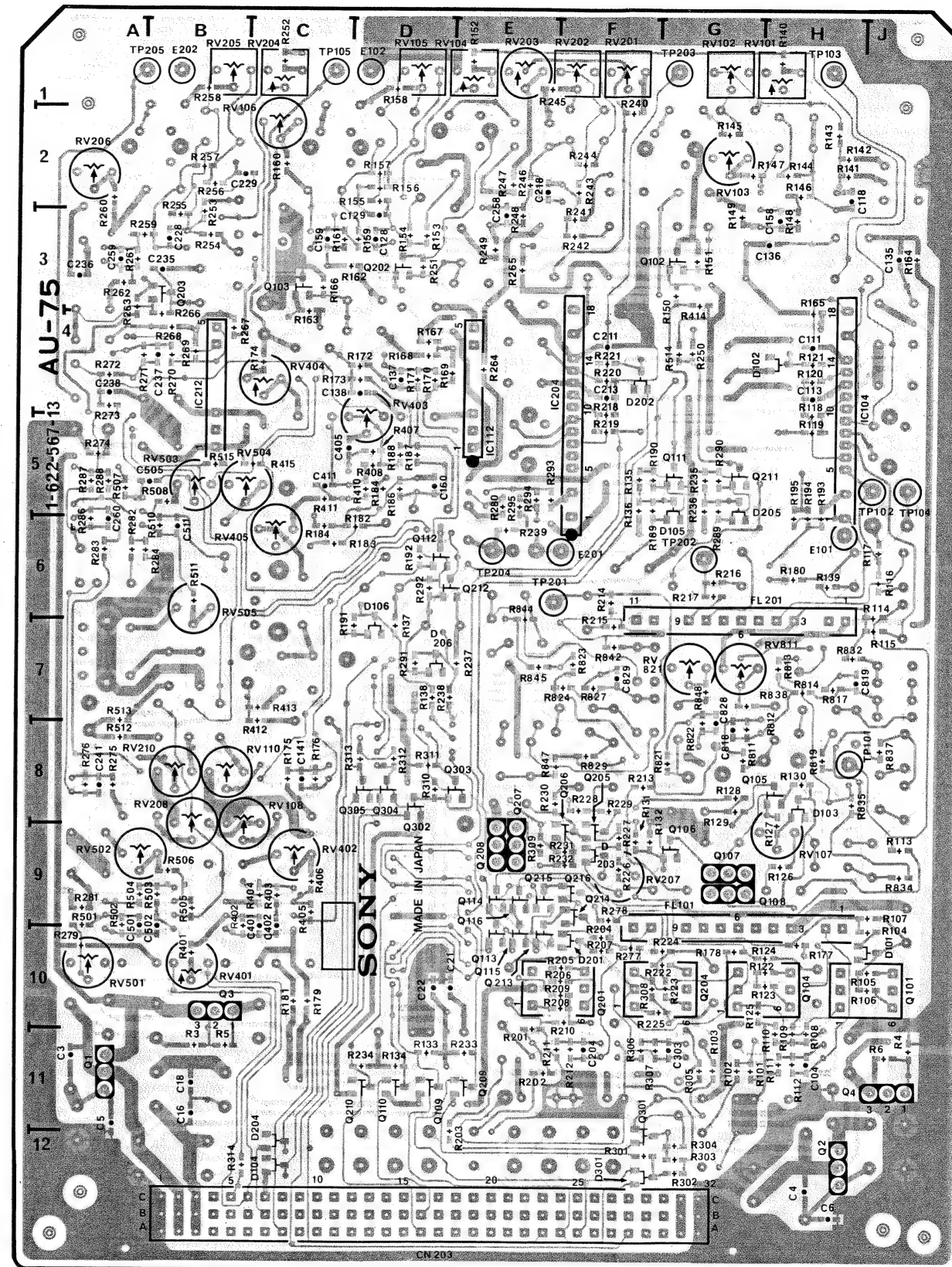
CN203	D-12	Q109	D-11
D101	J-10	Q110	D-11
D102	H-4	Q111	G-5
D103	H-8	Q112	D-6
D104	C-12	Q113	E-10
D105	G-5	Q114	E-9
D106	D-7	Q115	E-10
D201	F-10	Q116	E-9
D202	F-4	Q201	F-10
D203	F-9	Q202	D-3
D204	C-12	Q203	B-3
D205	G-5	Q204	G-10
D206	D-7	Q205	F-9
D301	G-12	Q206	F-9
		Q207	E-9
		Q208	E-9
E101	H-6	Q209	E-11
E102	D-1	Q210	D-11
E201	F-6	Q211	G-5
E202	B-1	Q212	E-6
		Q213	E-10
FL101	G-9	Q214	F-9
FL201	H-7	Q215	E-9
		Q216	F-9
IC101	H-11	Q301	G-11
IC104	H-4	Q302	D-8
IC105	H-2	Q303	E-8
IC106	D-3	Q304	D-8
IC107	D-4	Q305	D-8
IC108	D-10		
IC109	H-6	RV101	H-1
IC110	C-8	RV102	G-1
IC111	D-5	RV103	G-2
IC112	E-4	RV104	E-1
IC201	F-11	RV105	D-1
IC204	F-4	RV106	C-2
IC205	F-2	RV107	H-9
IC206	B-3	RV108	C-8
IC207	B-4	RV110	B-8
IC208	D-9	RV201	F-1
IC209	E-5	RV202	F-1
IC210	A-8	RV203	E-1
IC211	A-5	RV204	C-1
IC212	B-4	RV205	B-1
IC301	F-10	RV206	A-2
IC302	D-8	RV207	F-9
IC401	C-9	RV208	B-8
IC501	B-9	RV210	B-8
IC801	G-8	RV401	B-10
IC811	H-7	RV402	C-9
IC812	H-8	RV403	D-4
IC821	E-7	RV404	C-4
IC822	F-7	RV405	C-6
		RV501	A-10
LV101	J-5	RV502	B-9
LV102	G-2	RV503	B-5
LV103	C-2	RV504	C-5
LV201	E-5	RV505	B-6
LV202	E-2	RV811	G-7
LV203	B-2	RV812	G-7
LV401	C-6		
LV501	A-7		
Q1	A-11	TP101	J-8
Q2	H-12	TP102	J-5
Q3	B-10	TP103	H-1
Q4	J-11	TP104	J-5
Q101	J-10	TP105	C-1
Q102	G-3	TP201	F-6
Q103	C-3	TP202	G-6
Q104	H-10	TP203	G-1
Q105	H-8	TP204	E-6
Q106	G-9	TP205	B-1
Q107	G-9		
Q108	G-9		



AU-75 - COMPONENT SIDE -
1-622-567-13
BVW-70
BVW-75
BVW-96



AU-75 -COMPONENT SIDE-
1-622-567-13
BVW-70
BVW-75
BVW-96



AU-75 -SOLDERING SIDE-
1-622-567-13
BVW-70
BVW-75
BVW-96

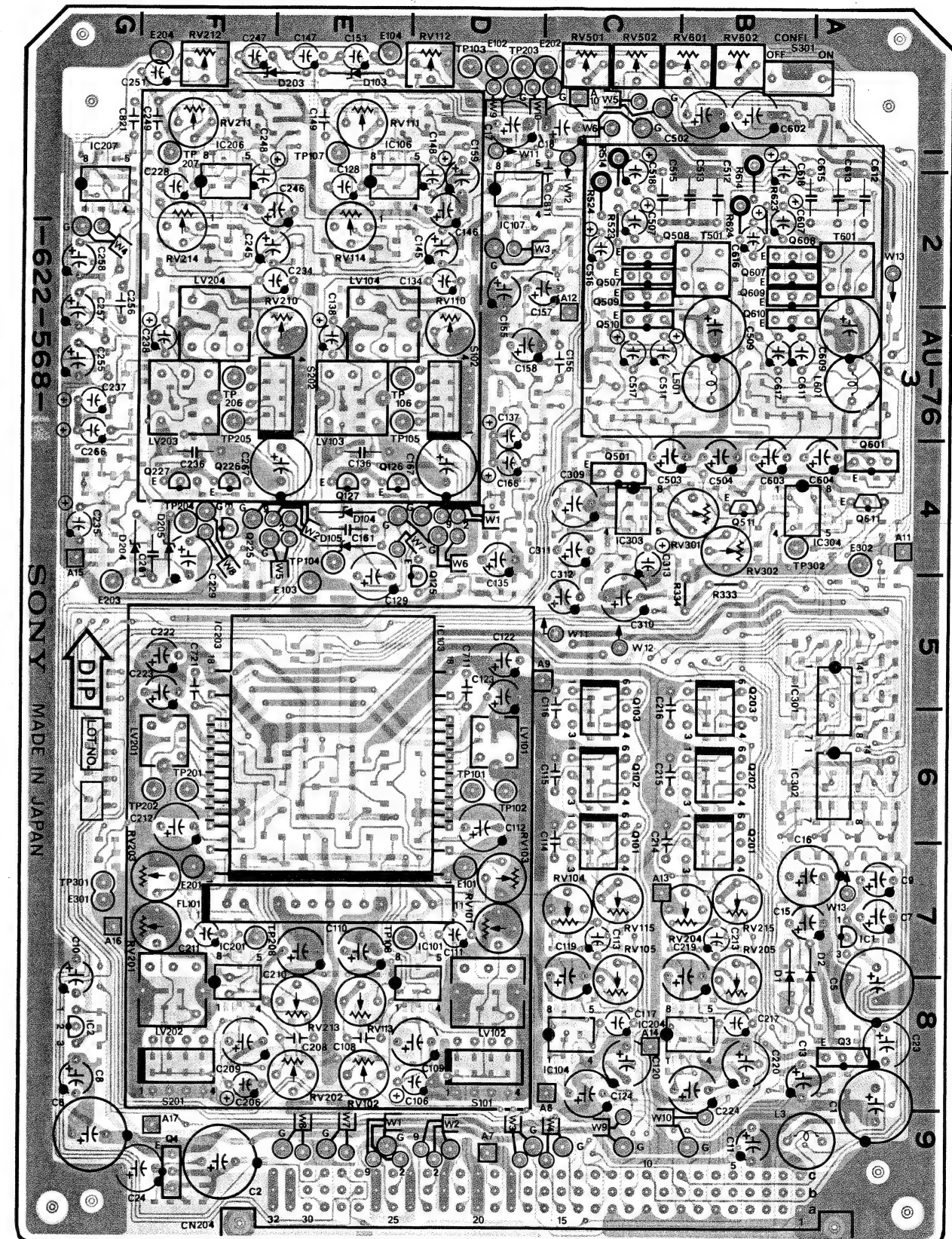
AU-76 (1-622-568-14, 15)

REF. NO.	TYPE	PIN NO.						
		+12V	+11V	+7V	GND	-7V	-11V	-12V
IC 1	NJM78L05A	*		*	2	*		*
IC 2	NJM79L05A	*		*	3	*		*
IC 101	NJM2043M-D		*				*	
IC 103	BX1152			12	1.6.18	14		
IC 104	RC5532M		*				*	
IC 106	NJM2043M-D			*		*		
IC 107	NJM2041M-D			8		4		
IC 201	NJM2043M-D		*				*	
IC 203	BX1152			12	1.6.18	14		
IC 204	RC5532M		*				*	
IC 206	NJM2043M-D			*		*		
IC 207	NJM2041M-D			8		4		
IC 301	TC4011BF			14		7		
IC 302	TC4001BF			14		7		
IC 303	RC5532M	*						*
IC 304	RC5532M	*						*

* REFER TO SCHEMATIC

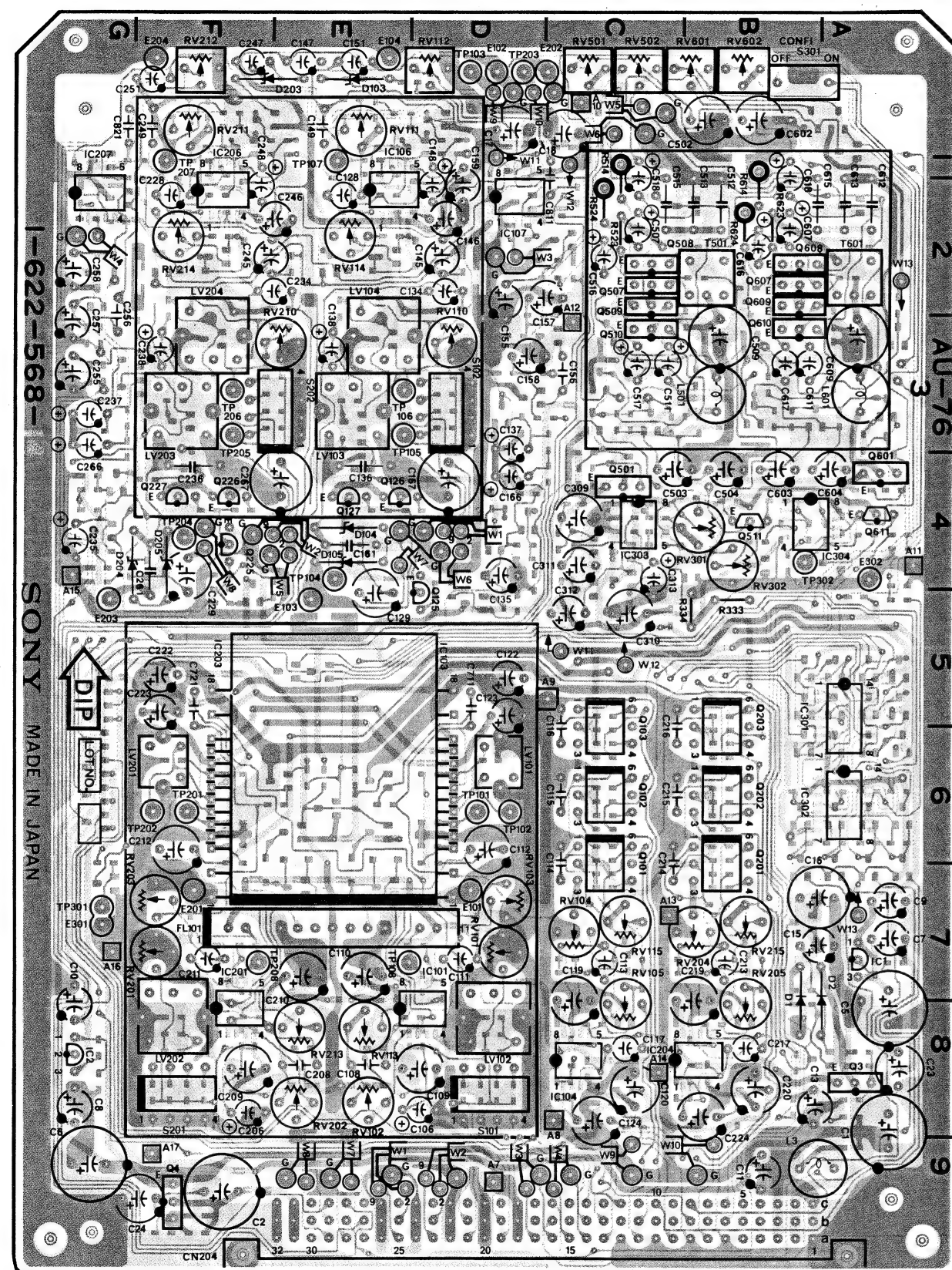
AU-76 (1-622-568-14, 15)

CN204	C-9	IC302	A-6	Q213	F-1	Q701	E-6	TP101	D-6
D1	B-7	IC303	C-4	Q215	G-3	Q711	E-7	TP102	D-6
D2	B-7	IC304	B-4	Q216	G-2	Q712	E-6	TP103	D-1
D3	B-7	LV101	D-6	Q217	G-2	Q713	E-6	TP104	E-4
D101	D-4	LV102	D-7	Q218	A-5	Q721	E-7	TP105	E-3
D102	E-3	LV103	E-3	Q219	B-5	Q722	E-6	TP106	E-3
D103	E-1	LV104	E-3	Q220	A-5	Q723	E-6	TP107	E-1
D104	E-4	LV201	F-6	Q221	B-5	Q801	D-1	TP108	D-8
D105	E-4	LV202	F-7	Q222	A-6	Q811	E-2	TP201	F-6
D106	E-5	LV203	F-3	Q223	B-6	Q812	E-2	TP202	F-6
D201	G-4	LV204	F-3	Q224	F-5	Q813	D-2	TP203	D-1
D202	F-3			Q225	F-4	Q821	F-2	TP204	F-4
D203	F-1	Q1	A-8	Q226	F-4	Q822	F-2	TP205	F-3
D204	F-4	Q2	G-7	Q227	F-4	Q823	G-1	TP206	F-3
D205	F-4	Q3	A-8	Q301	A-7			TP207	F-1
D206	E-6	Q4	F-9	Q302	A-6	RV101	D-7	TP208	E-7
D301	C-4	Q101	C-7	Q303	B-7	RV102	E-8	TP301	G-7
D302	C-4	Q102	C-6	Q304	B-6	RV103	D-7	TP302	B-4
D303	G-6	Q103	C-5	Q305	A-7	RV104	C-7		
D501	C-3	Q104	C-8	Q306	A-6	RV105	C-7		
D502	B-4	Q105	D-3	Q307	A-7	RV110	D-3		
D503	B-2	Q106	D-4	Q308	A-6	RV111	E-1		
D601	B-3	Q107	E-3	Q309	G-6	RV112	D-1		
D602	A-4	Q108	G-5	Q310	G-6	RV113	E-8		
D603	A-2	Q110	E-3	Q311	G-6	RV114	E-2		
E101	D-7	Q111	D-1	Q313	C-4	RV115	C-7		
E102	D-1	Q112	D-1	Q314	C-4	RV201	F-7		
E103	E-5	Q113	E-1	Q315	C-4	RV202	F-8		
E104	E-1	Q115	C-2	Q316	A-1	RV203	F-7		
E201	F-7	Q116	C-3	Q317	A-3	RV204	B-7		
E202	C-1	Q117	D-3	Q318	A-1	RV205	B-7		
E203	G-5	Q118	A-5	Q501	C-4	RV210	E-3		
E204	F-1	Q119	A-5	Q502	C-4	RV211	F-1		
E301	G-7	Q120	A-5	Q503	C-1	RV212	F-1		
E302	A-4	Q121	A-5	Q504	C-3	RV213	E-8		
FL101	E-7	Q122	A-6	Q505	C-3	RV214	F-2		
IC1	A-7	Q123	A-6	Q506	C-3	RV215	B-7		
IC2	G-8	Q124	D-5	Q507	C-2	RV301	B-4		
IC101	D-8	Q125	D-5	Q508	C-2	RV302	B-4		
IC103	D-6	Q126	E-4	Q509	C-2	RV501	C-1		
IC104	C-8	Q127	E-4	Q510	C-3	RV502	C-1		
IC106	E-2	Q201	B-7	Q511	B-4	RV601	B-1		
IC107	D-2	Q202	B-6	Q601	A-4	RV602	B-1		
IC201	F-8	Q203	B-5	Q602	A-3			S101	D-8
IC203	F-6	Q204	B-8	Q603	B-1			S102	D-3
IC204	B-8	Q205	G-3	Q604	A-3			S201	F-8
IC206	F-2	Q206	G-4	Q605	B-3			S202	E-3
IC207	G-2	Q207	F-4	Q606	B-3			S301	B-1
IC301	A-5	Q208	G-5	Q607	B-2				
		Q209	F-3	Q608	B-2			T501	B-2
		Q210	F-1	Q609	B-2			T601	A-2
		Q211	F-1	Q610	B-3				
		Q212	F-1	Q611	A-4				



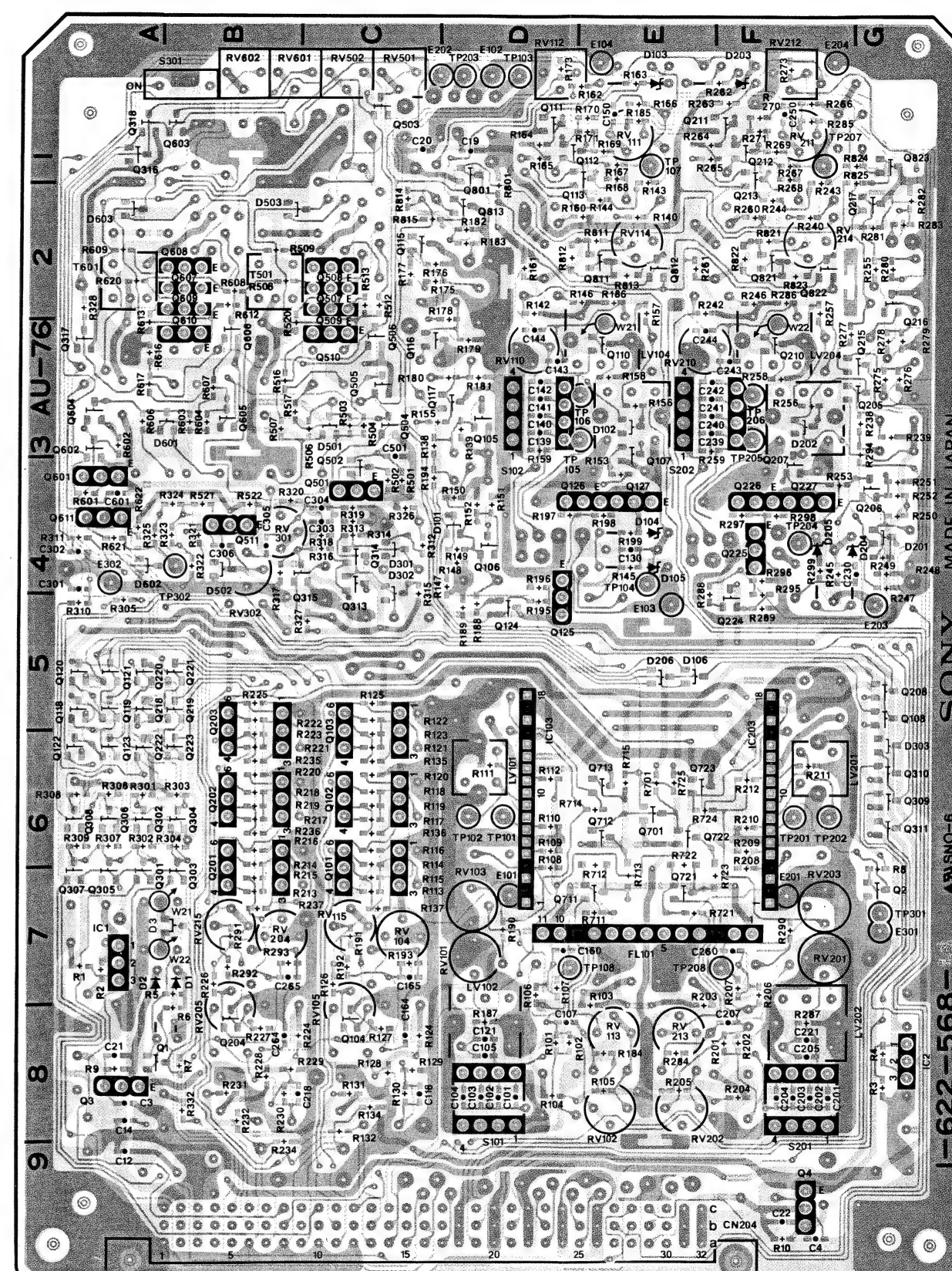
AU-76 - COMPONENT SIDE -
1-622-568-14, 15
BVW-70
BVW-75
BVW-96

AU-76; LNG AUDIO HEAD AMPLIFIER, BIAS OSCILLATOR

UC; Up to S/N 14821
J; Up to S/N 12028

AU-76 -COMPONENT SIDE-
1-622-568-14, 15
BVW-70
BVW-75
BVW-96

17-106 (a)



AU-76 -SOLDERING SIDE-
1-622-568-14, 15
BVW-70
BVW-75
BVW-96

17-107 (a)

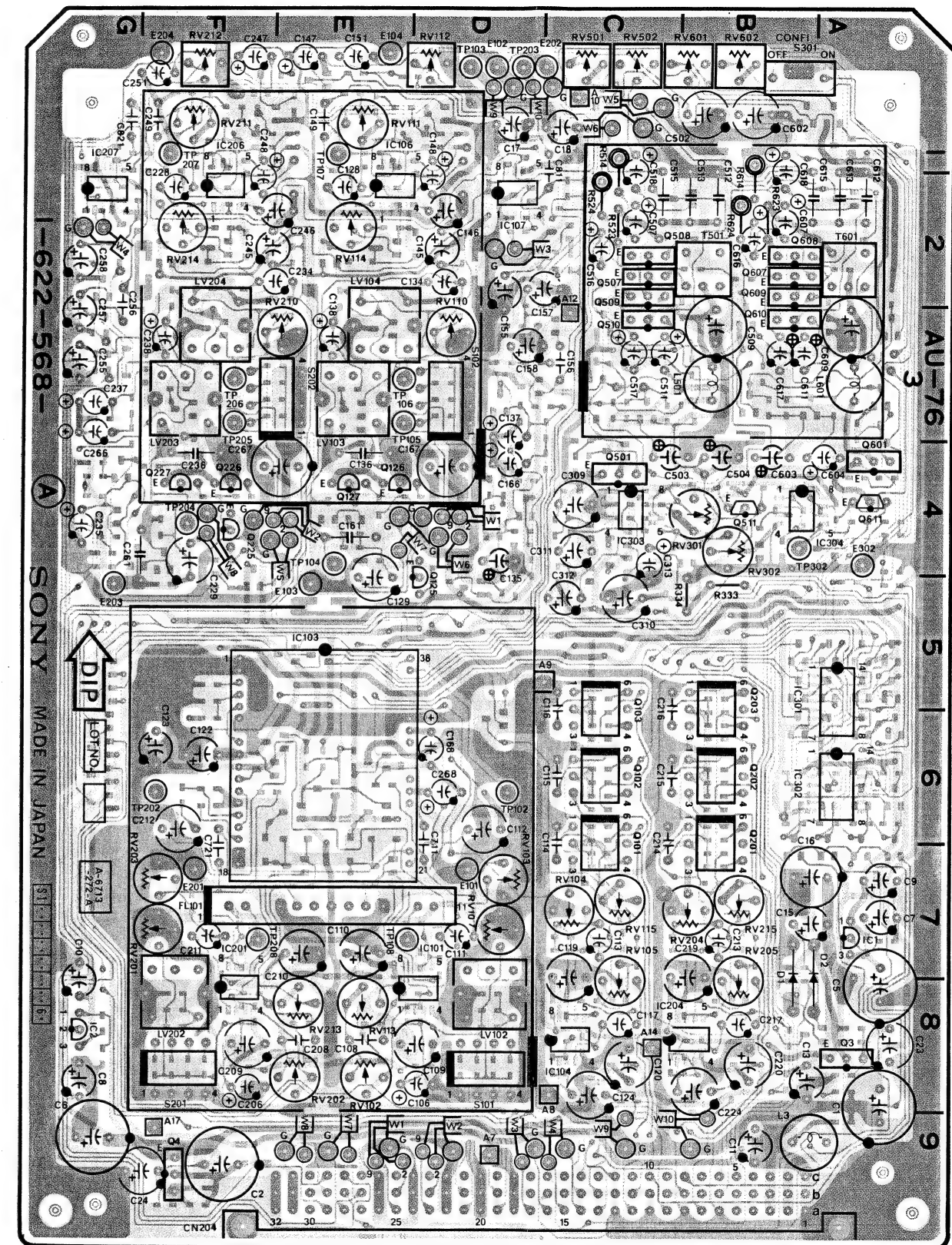
AU-76 (1-622-568-16)

REF. NO.	TYPE	PIN NO.							
		+12V	+11V	+7V	GND	-7V	-11V	-12V	
IC 1	NJM78L05A	*		*	2	*		*	
IC 2	NJM79L05A	*		*	3	*		*	
IC 101	NJM2043M-D		*			*	*		
IC 103	8X1152			12	1.6.18	14	*		
IC 104	NJM5532M		*			*	*		
IC 106	NJM2043M-D			*		*	*		
IC 107	NJM2041M-D			8		4	*		
IC 201	NJM2043M-D		*			*	*		
IC 204	NJM5532M		*			*	*		
IC 206	NJM2043M-D			*		*			
IC 207	NJM2041M-D			8		4			
IC 301	TC4011BF			14		7			
IC 302	TC4001BF			14		7			
IC 303	NJM5532M	*						*	
IC 304	NJM5532M	*						*	

* REFER TO SCHEMATIC

AU-76 (1-622-568-16)

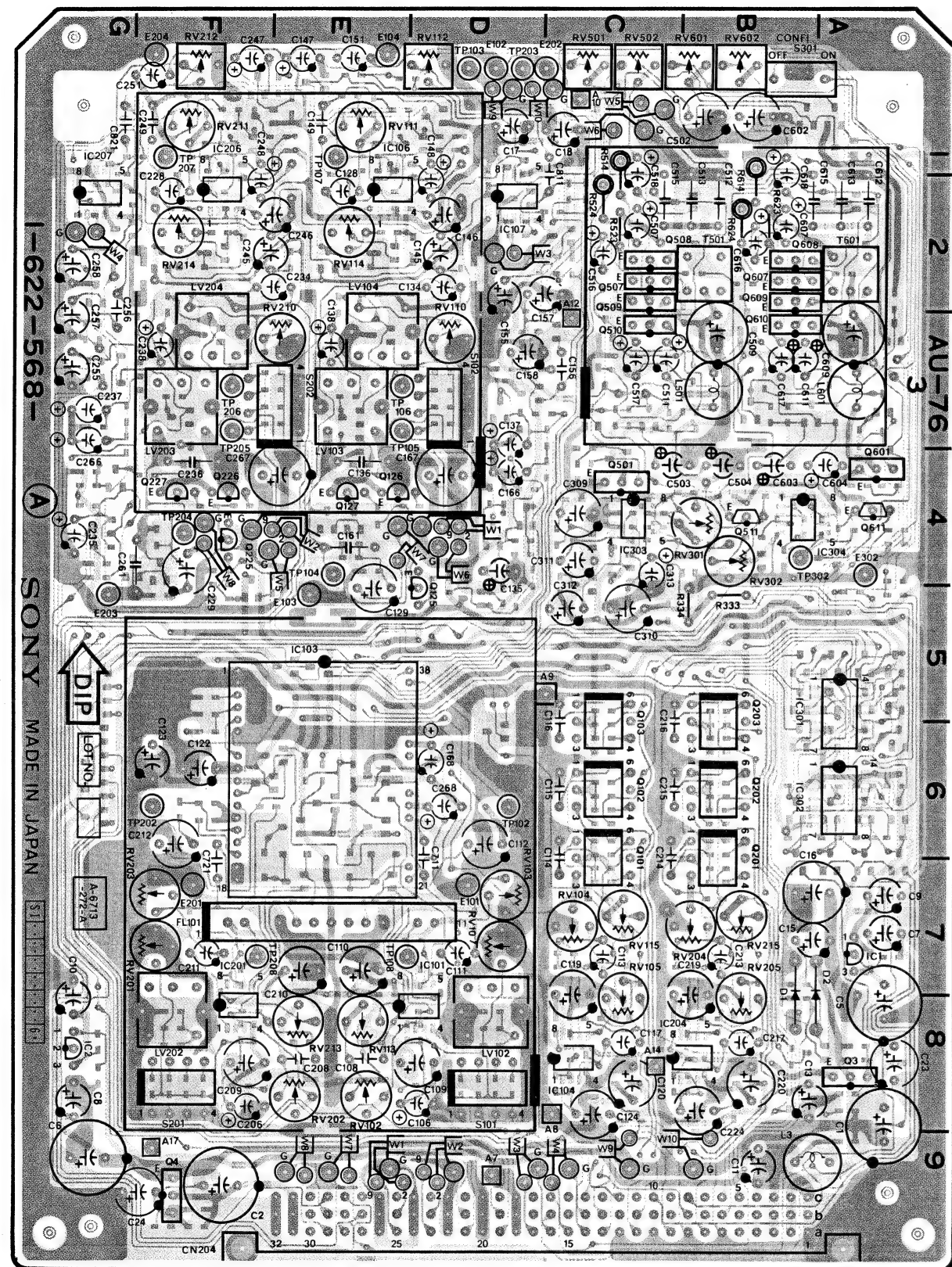
CN204	C-9	IC302	A-6	Q216	G-2	Q712	E-6	TP101	D-6
D1	B-7	IC303	C-4	Q217	G-2	Q713	E-6	TP102	D-6
D2	B-7	IC304	B-4	Q218	A-5	Q721	E-7	TP103	D-1
D3	B-7	LV102	D-7	Q219	B-5	Q722	E-6	TP104	E-4
D101	D-4	LV103	E-3	Q220	A-5	Q723	E-6	TP105	E-3
D102	E-3	LV104	E-3	Q221	B-5	Q801	D-1	TP106	E-3
D103	E-1	LV202	F-7	Q222	A-6	Q811	E-2	TP107	E-1
D104	E-4	LV203	F-3	Q223	B-6	Q812	E-2	TP108	D-8
D105	E-4	LV204	F-3	Q224	F-5	Q813	D-2	TP201	F-6
D106	E-5			Q225	F-4	Q821	F-2	TP202	F-6
D201	G-4	Q1	A-8	Q226	F-4	Q822	F-2	TP203	D-1
D202	F-3	Q2	G-7	Q227	F-4	Q823	G-1	TP204	F-4
D203	F-1	Q3	A-8	Q301	A-7			TP205	F-3
D204	F-4	Q4	F-9	Q302	A-6	RV101	D-7	TP206	F-3
D205	F-4	Q101	C-7	Q303	B-7	RV102	E-8	TP207	F-1
D206	E-6	Q102	C-6	Q304	B-6	RV103	D-7	TP208	E-7
D301	C-4	Q103	C-5	Q305	A-7	RV104	C-7	TP301	G-7
D302	C-4	Q104	C-8	Q306	A-6	RV105	C-7	TP302	B-4
D303	G-6	Q105	D-3	Q307	A-7	RV110	D-3		
D501	C-3	Q106	D-4	Q308	A-6	RV111	E-1		
D502	B-4	Q107	E-3	Q309	G-6	RV112	D-1		
D503	B-2	Q108	G-5	Q310	G-6	RV113	E-8		
D601	B-3	Q110	E-3	Q311	G-6	RV114	E-2		
D602	A-4	Q111	D-1	Q313	C-4	RV115	C-7		
D603	A-2	Q112	D-1	Q314	C-4	RV201	F-7		
		Q113	E-1	Q315	C-4	RV202	F-8		
E101	D-7	Q115	C-2	Q316	A-1	RV203	F-7		
E102	D-1	Q116	C-3	Q317	A-3	RV204	B-7		
E103	E-5	Q117	D-3	Q318	A-1	RV205	B-7		
E104	E-1	Q118	A-5	Q501	C-4	RV210	E-3		
E201	F-7	Q119	A-5	Q502	C-4	RV211	F-1		
E202	C-1	Q120	A-5	Q503	C-1	RV212	F-1		
E203	G-5	Q121	A-5	Q504	C-3	RV213	E-8		
E204	F-1	Q122	A-6	Q505	C-3	RV214	F-2		
E301	G-7	Q123	A-6	Q506	C-3	RV215	B-7		
E302	A-4	Q124	D-5	Q507	C-2	RV301	B-4		
		Q125	D-5	Q508	C-2	RV302	B-4		
FL101	E-7	Q126	E-4	Q509	C-2	RV501	C-1		
		Q127	E-4	Q510	C-3	RV502	C-1		
IC1	A-7	Q201	B-7	Q511	B-4	RV601	B-1		
IC2	G-8	Q202	B-6	Q601	A-4	RV602	B-1		
IC101	D-8	Q203	B-5	Q602	A-3				
IC103	D-6	Q204	B-8	Q603	B-1	S101	D-8		
IC104	C-8	Q205	G-3	Q604	A-3	S102	D-3		
IC106	E-2	Q206	G-4	Q605	B-3	S201	F-8		
IC107	D-2	Q207	F-4	Q606	B-3	S202	E-3		
IC201	F-8	Q208	G-5	Q607	B-2	S301	B-1		
IC203	F-6	Q210	F-3	Q608	B-2				
IC204	B-8	Q211	F-1	Q609	B-2	T501	B-2		
IC206	F-2	Q212	F-1	Q610	B-3	T601	A-2		
IC207	G-2	Q213	F-1	Q611	A-4				
IC301	A-5	Q215	G-3	Q701	E-6				
				Q711	E-7				



AU-76—COMPONENT SIDE—
1-622-568-16
BVW-70
BVW-75
BVW-96

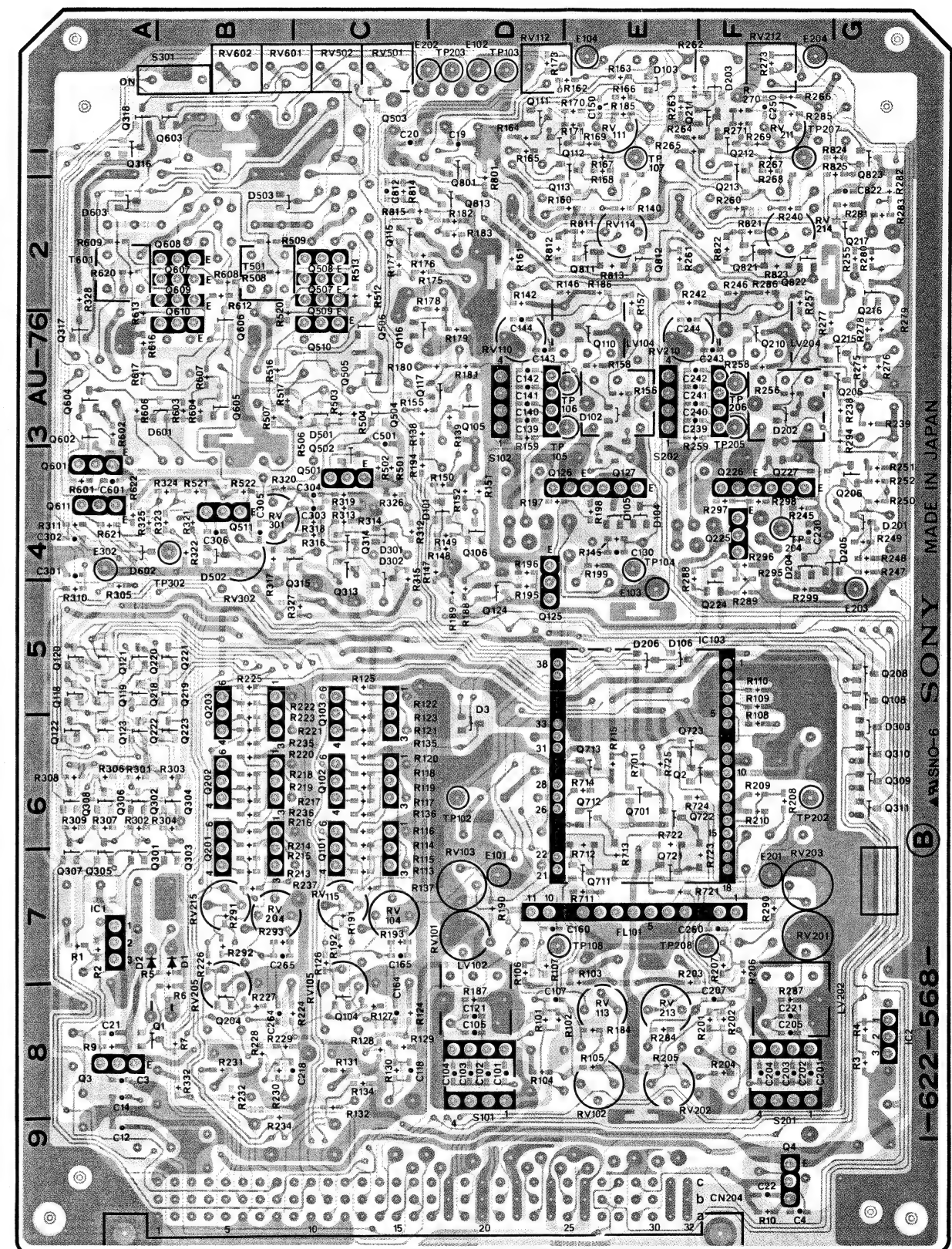
AU-76; LNG AUDIO HEAD AMPLIFIER, BIAS OSCILLATOR

UC; S/N 14822 and higher
J; S/N 12029 and higher



AU-76—COMPONENT SIDE—
1-622-568-16
BVW-70
BVW-75
BVW-96

17-106 (b)



AU-76—SOLDERING SIDE—
1-622-568-16
BVW-70
BVW-75
BVW-96

17-107 (b)

AFM-1; AFM AUDIO MODULATOR/DEMODULATOR
FL-61; LOW PASS FILTER

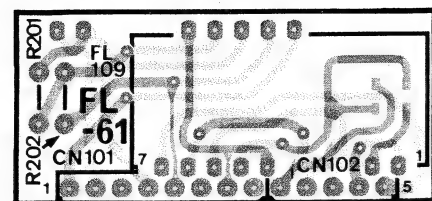
AFM-1(1-622-569-12, 13)

REF. NO	TYPE	PIN NO.			
		+12V	+5V	GND	-12V
IC 1	AN3920K		7	1.19	
IC 2	AN3920K		7	1.19	
IC 101	AN3922NK		6	4.15	
IC 102	AN3922NK		6	4.15	
IC 103	TC4053BF		16	8	
IC 104	NJM2041M-D	8			4
IC 201	AN3922NK		6	4.15	
IC 202	AN3922NK		6	4.15	
IC 301	NJM2041M-D	8			4
IC 303	NJM2041M-D	8			4
IC 304	NJM5532M	8			4
IC 401	NJM2041M-D	8			4
IC 403	NJM2041M-D	8			4
IC 404	NJM5532M	8			4
IC 501	CX20099		15	1.14	
IC 502	NJM2041M-D	8			4
IC 701	TC4011BF		14	7	4
IC 702	TC4030BF		14	7	4
IC 703	TC504013BF		14	7	4
IC 704	TC4538BF		16	8	4
IC 705	TC4538BF		16	8	
IC 706	TC4001BF		14	7	
IC 707	TC4011BF		14	7	4
IC 708	NJM78L06A			2	
IC 710	NJM7805A	*	*	2	*

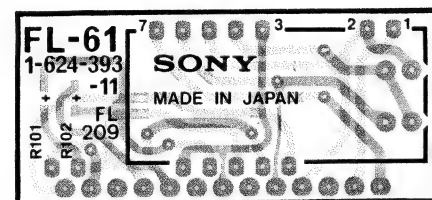
* REFER TO SCHEMATIC

AFM-1(1-622-569-12, 13)

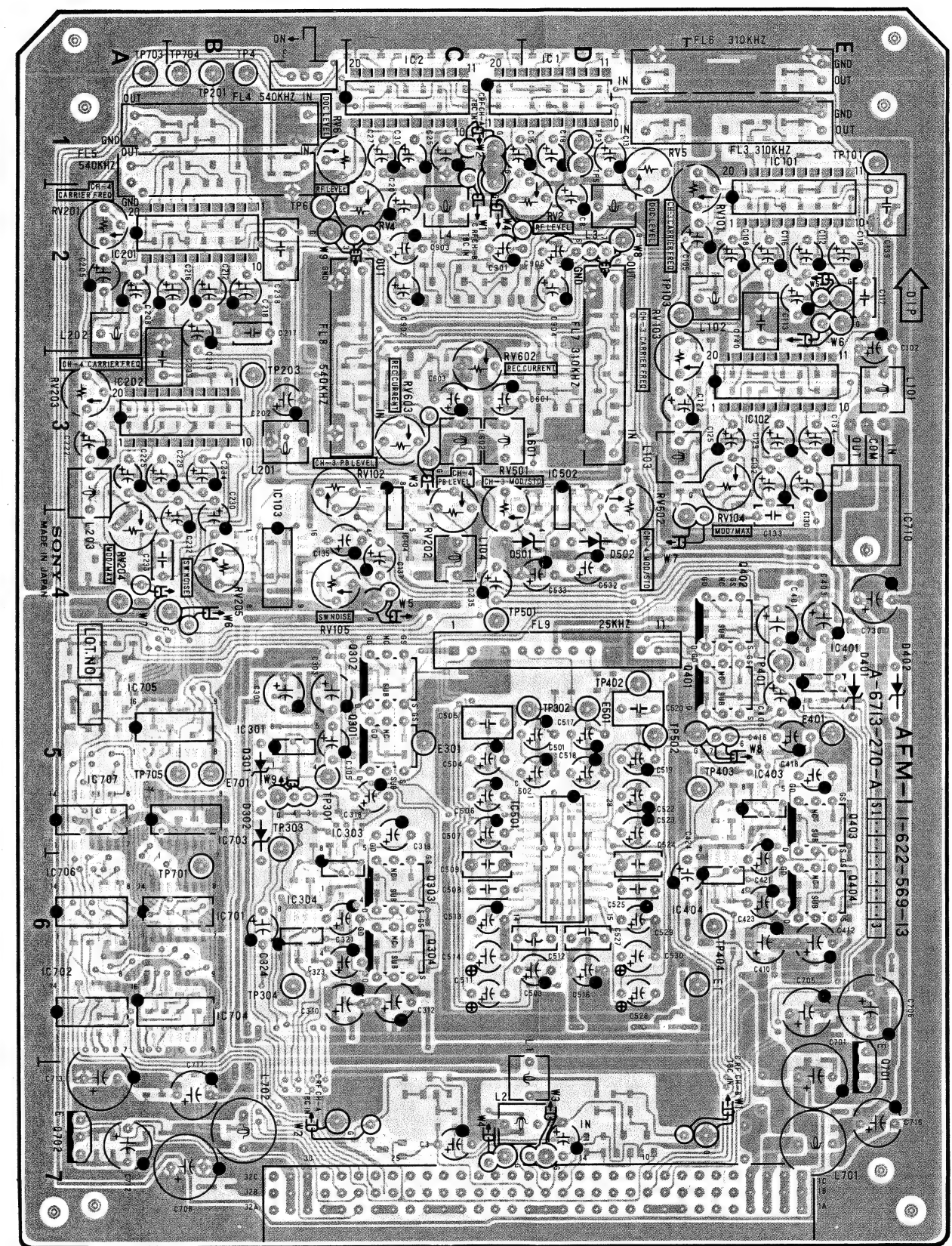
D101	E-2	IC103	B-4	Q403	E-5	RV304	B-6	TP601	C-3
D102	E-3	IC104	C-3	Q404	E-6	RV404	E-5	TP701	B-6
D201	A-2	IC201	B-2	Q601	D-3	RV501	C-3	TP706	B-4
D202	A-4	IC202	B-3	Q602	D-2	RV502	D-3	TP707	B-4
D301	B-5	IC301	B-5	Q603	D-3	RV601	D-3		
D302	B-5	IC303	B-6	Q604	C-3	RV602	C-3		
D401	E-5	IC304	B-6	Q605	D-3	RV603	C-3		
D402	E-5	IC401	E-5	Q606	C-3				
D501	D-4	IC403	E-5	Q607	B-3	S1	B-1		
D502	D-4	IC404	E-6	Q608	B-2				
D901	C-2	IC501	D-6	Q701	E-7	TP1	C-7		
D902	C-2	IC502	D-3	Q702	A-7	TP2	D-7		
		IC701	B-6	Q703	A-5	TP3	D-1		
E1	E-6	IC702	A-6	Q704	A-4	TP4	B-1		
E101	B-4	IC703	B-5	Q705	A-5	TP5	D-1		
E201	B-4	IC704	B-6	Q706	A-4	TP6	B-2		
E301	C-5	IC705	A-5	Q707	B-5	TP101	E-2		
E401	E-5	IC706	A-6	Q901	C-2	TP102	B-4		
E501	D-5	IC707	A-5	Q902	C-2	TP103	D-1		
E601	C-3	IC708	E-7	Q903	C-2	TP201	B-2		
E7Q1	B-5	IC710	E-3	Q904	D-2	TP202	C-4		
						TP203	B-3		
FL1	C-7	Q1	C-7	RV2	D-2	TP301	B-5		
FL2	D-7	Q2	C-7	RV4	B-2	TP302	C-5		
FL3	E-1	Q3	D-7	RV5	D-1	TP303	B-6		
FL4	B-1	Q4	D-7	RV6	B-2	TP304	B-6		
FL5	B-1	Q5	C-7	RV101	E-2	TP305	C-5		
FL6	E-1	Q6	D-7	RV102	B-3	TP401	E-4		
FL7	D-3	Q101	E-3	RV103	D-3	TP402	D-5		
FL8	B-2	Q201	A-4	RV104	E-3	TP403	E-5		
FL9	D-4	Q301	C-5	RV105	B-4	TP404	E-6		
		Q302	C-4	RV201	A-2	TP405	E-5		
IC1	D-1	Q303	C-6	RV202	C-3	TP406	D-5		
IC2	C-1	Q304	C-6	RV203	A-3	TP501	C-5		
IC101	E-2	Q401	E-5	RV204	A-4	TP502	D-5		
IC102	E-3	Q402	E-4	RV205	B-4	TP503	C-5		



FL-61 - COMPONENT SIDE -
1-624-393-11
BVW-70
BVW-75
BVW-96

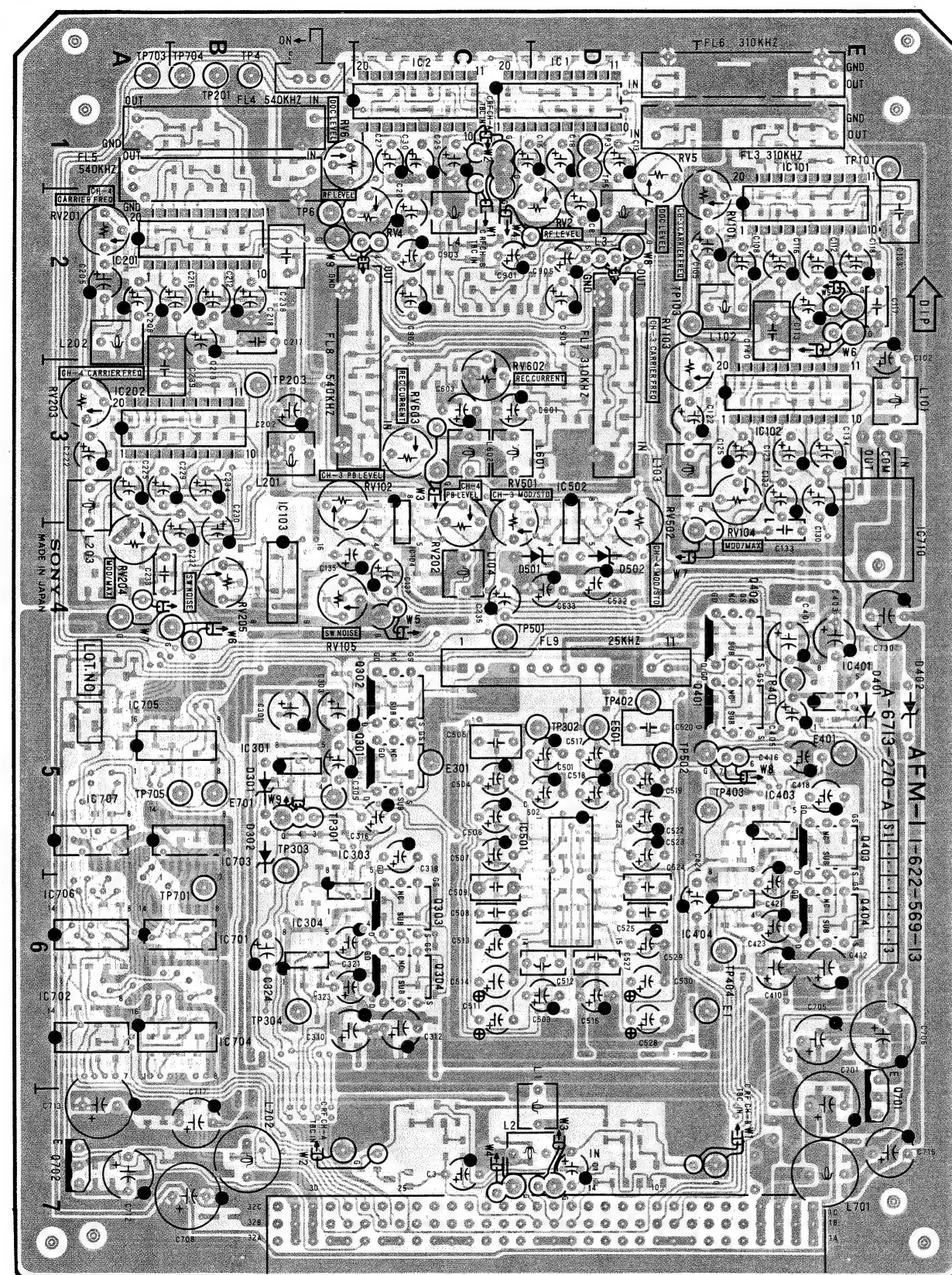


FL-61 - SOLDERING SIDE -
1-624-393-11
BVW-70
BVW-75
BVW-96

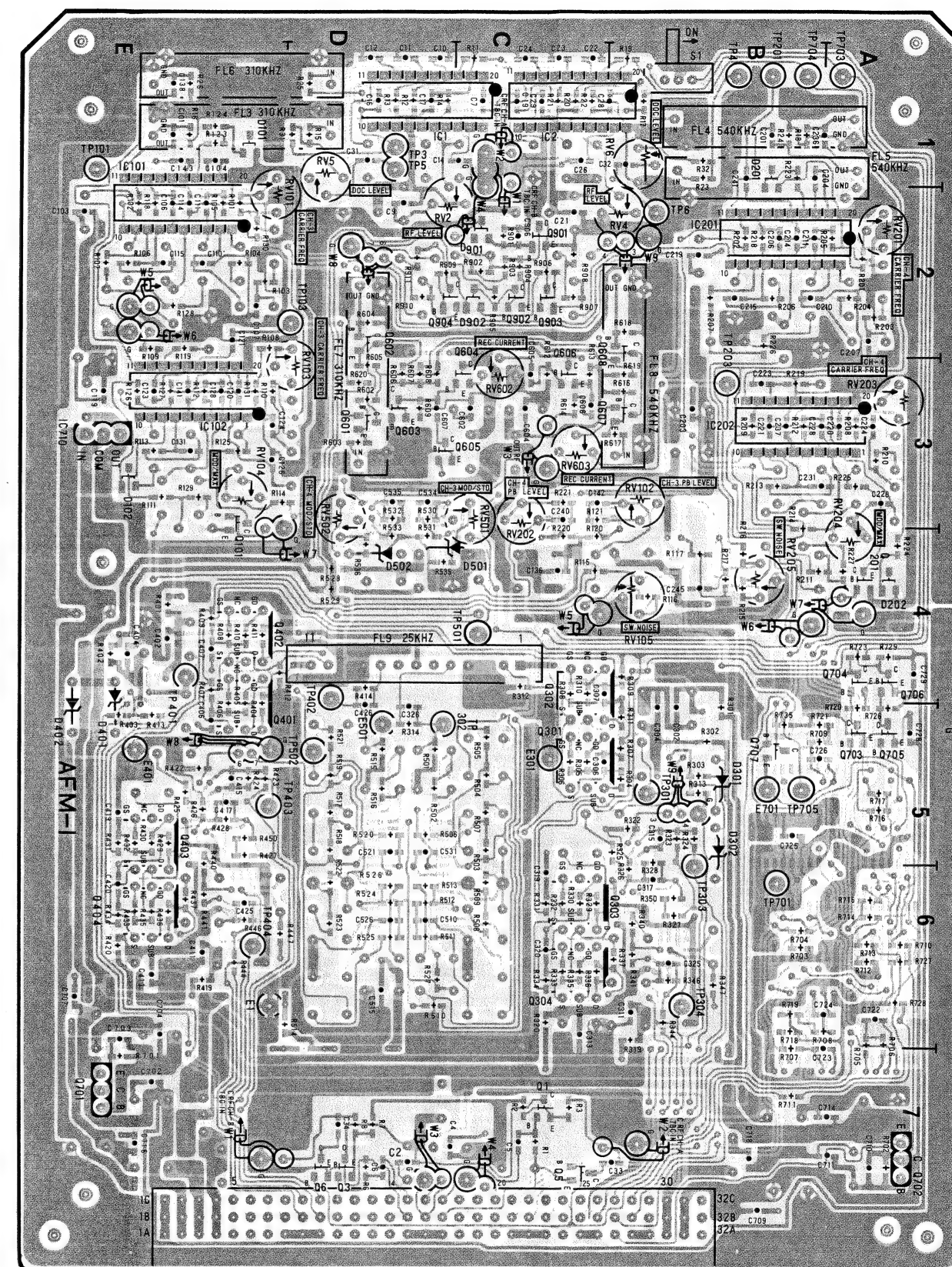


AFM-1 - COMPONENT SIDE -
1-622-569-12,13
BVW-70
BVW-75
BVW-96

AFM-1; AFM AUDIO MODULATOR/DEMODULATOR
FL-61; LOW PASS FILTER



AFM-1 — COMPONENT SIDE —
1-622-569-12,13
BVW-70
BVW-75
BVW-96



AFM-1 — SOLDERING SIDE —
1-622-569-12,13
BVW-70
BVW-75
BVW-96

UC; Up to S/N 14821
J; Up to S/N 12028

CP-111 (1-622-571-12)

REF. NO	TYPE	PIN NO.	
		+12V	-12V
IC 31	NJM4560D-D	8	4
IC 32	CX770	*	*
IC 33	NJM4560D-D	8	4
IC 34	NJM4560D-D	8	4
IC 35	NJM4560D-D	8	4
IC 36	CX770	*	*
IC 37	NJM4560D-D	8	4
IC 38	CX770	*	*
IC 39	NJM4560D-D	8	4
IC 40	NJM4560D-D	8	4

*REFER TO SCHEMATIC

UC; S/N 14822 through 16569
J; S/N 12029 through 13023

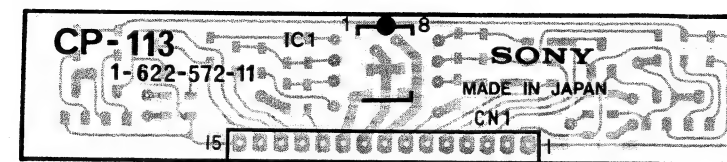
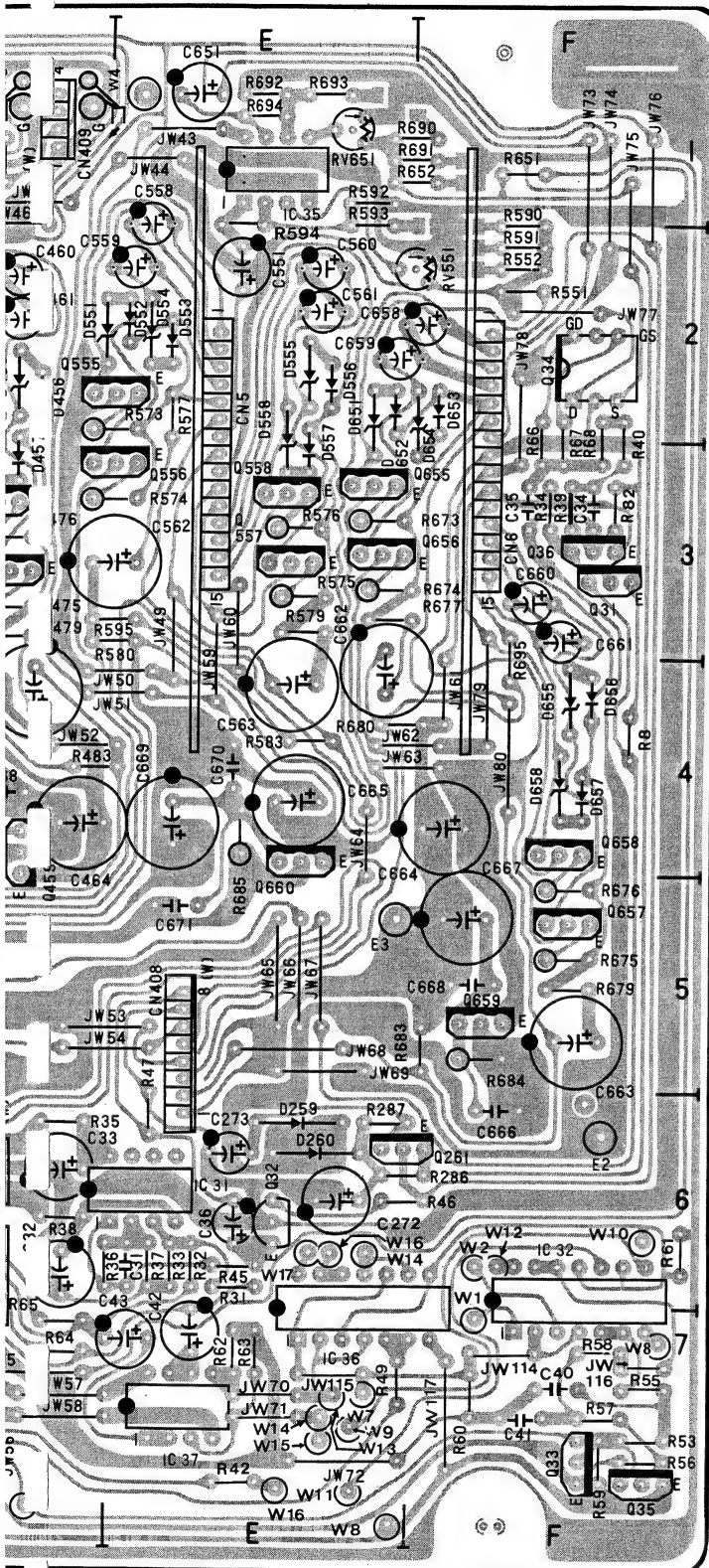
CP-111 (1-622-571-13)

REF. NO	TYPE	PIN NO.		
		+12V	+5V	-12V
IC 31	NJM4560D-D	8		4
IC 32	TC4016BP		14	7
IC 33	NJM4560D-D	8		4
IC 34	NJM4560D-D	8		4
IC 35	NJM4560D-D	8		4
IC 36	TC4016BP		14	7
IC 37	NJM4560D-D	8		4
IC 38	TC4016BP		14	7
IC 39	NJM4560D-D	8		4
IC 40	NJM4560D-D	8		4
IC 41	TC4016BP		14	7
IC 42	NJM73L05	*	*	*

*REFER TO SCHEMATIC

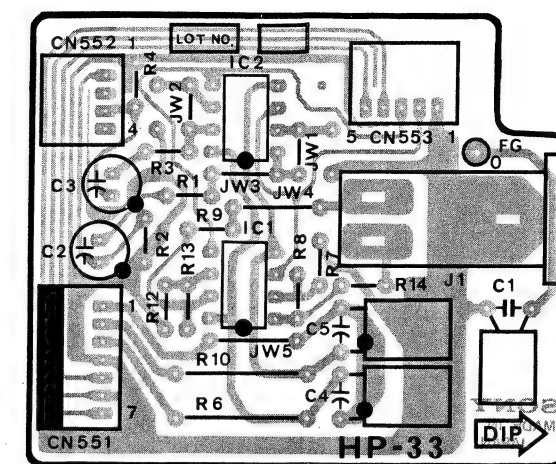
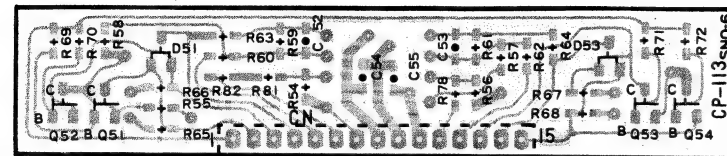
CP-111 (1-622-571-12,13)

CN1	A-3	E1	D-6
CN2	B-3	E2	F-6
CN3	C-3	E3	E-5
CN4	D-3	E4	F-6
CN5	E-3		
CN6	F-3	IC31	E-6
CN407	D-6	IC32	F-6
CN408	E-5	IC33	A-1
CN409	D-1	IC34	C-1
CN410	B-7	IC35	E-1
CN411	B-1	IC36	E-6
CN412	A-7	IC37	E-7
CN413	D-6	IC38	C-6
CN414	C-7	IC39	A-6
CN415	B-6	IC40	A-6
		IC41	B-7
		IC42	C-7
D151	A-2		
D152	A-2		
D153	A-2	Q31	F-3
D154	A-2	Q32	E-6
D155	A-2	Q33	F-7
D156	A-2	Q34	F-2
D157	A-3	Q35	F-7
D158	A-3	Q36	F-3
D251	B-2	Q37	B-6
D252	B-2	Q38	C-6
D253	B-2	Q155	A-2
D254	B-2	Q156	A-2
D255	B-2	Q157	A-3
D256	B-2	Q158	A-3
D257	B-3	Q255	B-3
D258	B-3	Q256	B-3
D259	E-6	Q257	B-3
D260	E-6	Q258	B-3
D351	C-2	Q259	B-4
D352	C-2	Q260	A-4
D353	C-2	Q261	E-6
D354	C-2	Q355	C-3
D355	C-2	Q356	C-2
D356	C-2	Q357	C-3
D357	C-3	Q358	C-3
D358	C-3	Q455	D-3
D451	D-2	Q456	D-3
D452	D-2	Q457	D-3
D453	D-2	Q458	D-3
D454	D-2	Q459	D-4
D455	D-2	Q460	C-4
D456	D-2	Q555	E-2
D457	D-3	Q556	E-3
D458	D-3	Q557	E-3
D551	D-2	Q558	E-3
D552	E-2	Q655	E-3
D553	E-2	Q656	E-3
D554	E-2	Q657	F-5
D555	E-2	Q658	F-4
D556	E-2	Q659	F-5
D557	E-3	Q660	E-4
D558	E-2		
D651	E-2	RV151	B-2
D652	E-2	RV251	B-1
D653	F-2	RV351	D-2
D654	F-2	RV451	D-1
D655	F-4	RV551	F-2
D656	F-4	RV651	E-1
D657	F-4		
D658	F-4	SP1	B-6
		SP2	B-6



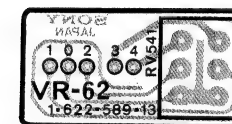
CP-113 -COMPONENT SIDE-

1-622-572-11
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96



HP-33 -COMPONENT SIDE-

1-622-590-13
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96



VR-62 -COMPONENT SIDE-

1-622-589-13

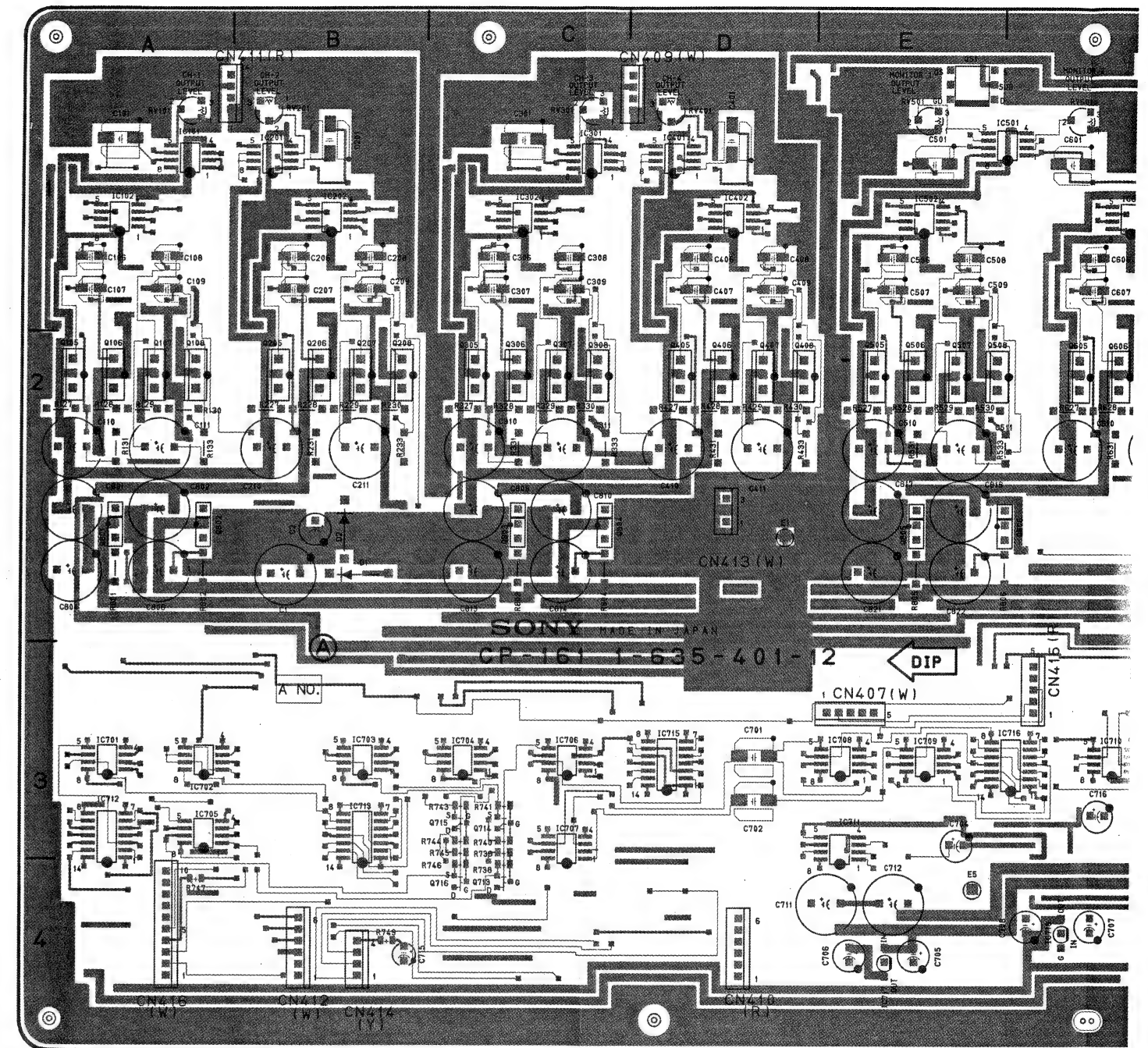
BVW-60	BVW-75
BVW-65	BVW-95
BVW-70	BVW-96

CP-161A (1-635-401-12)

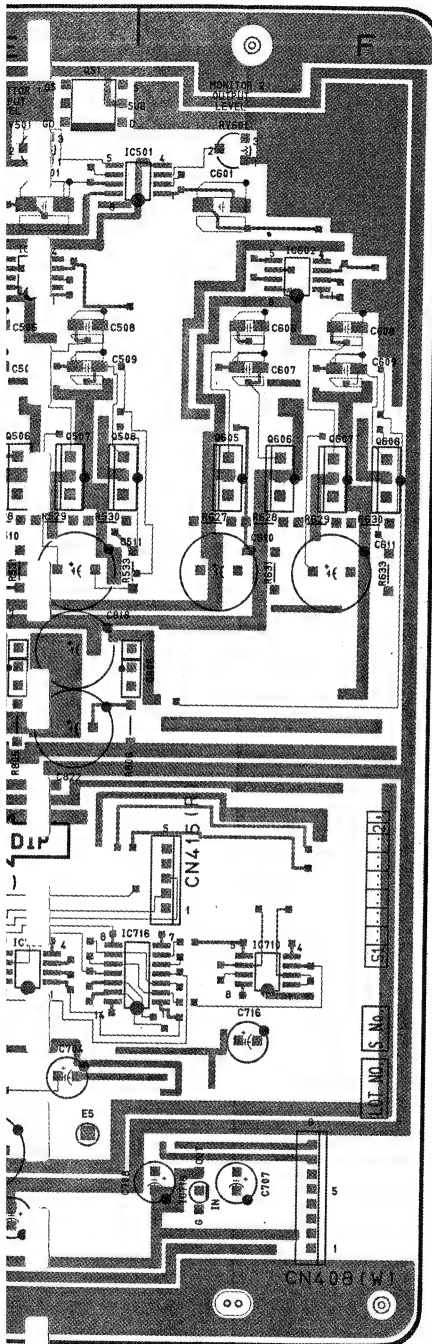
CN407	E-3	D702	D-4	Q203	B-1	Q704	C-4
CN408	F-4	D703	B-3	Q204	B-1	Q705	D-4
CN409	D-1	D704	B-3	Q205	B-2	Q706	D-4
CN410	D-4	D705	A-3	Q206	B-2	Q707	D-4
CN411	B-1	D706	B-3	Q207	B-2	Q708	D-4
CN412	B-4	D707	C-3	Q208	B-2	Q709	B-4
CN413	D-2	D708	A-3	Q209	B-2	Q710	C-4
CN414	B-4	D709	C-4	Q210	B-2	Q711	A-4
CN415	F-3	D710	C-3	Q211	B-2	Q712	A-4
		D711	C-4	Q212	B-2	Q713	C-4
D1	B-2	D712	C-3	Q301	C-1	Q714	C-3
D2	B-2			Q302	C-1	Q715	C-3
D101	A-1	E1	D-2	Q303	C-1	Q716	C-4
D102	A-1			Q304	C-1	Q717	F-3
D103	A-1	IC101	A-1	Q305	C-2	Q718	F-3
D104	A-1	IC102	A-1	Q306	C-2	Q719	E-3
D105	A-2	IC201	B-1	Q307	C-2	Q720	C-4
D106	A-2	IC202	B-1	Q308	C-2	Q721	A-4
D107	A-2	IC301	C-1	Q309	C-2	Q722	C-4
D108	A-2	IC302	C-1	Q310	C-2	Q723	C-4
D201	B-1	IC401	D-1	Q311	C-2	Q724	C-4
D202	B-1	IC402	D-1	Q312	C-2	Q725	B-4
D203	B-1	IC501	F-1	Q401	D-1	Q726	A-3
D204	B-1	IC502	E-1	Q402	D-1	Q801	A-2
D205	B-2	IC602	F-1	Q403	D-1	Q802	A-2
D206	B-2	IC701	A-3	Q404	D-1	Q803	C-2
D207	B-2	IC702	A-3	Q405	D-2	Q804	C-2
D208	B-2	IC703	B-3	Q406	D-2	Q805	E-2
D301	C-1	IC704	C-3	Q407	D-2	Q806	E-2
D302	C-1	IC705	A-3	Q408	D-2		
D303	C-1	IC706	C-3	Q409	D-2	RV101	A-1
D304	C-1	IC707	C-3	Q410	D-2	RV201	B-1
D305	C-2	IC708	E-3	Q411	D-2	RV301	C-1
D306	C-2	IC709	E-3	Q412	D-2	RV401	D-1
D307	C-2	IC710	F-3	Q501	E-1	RV501	E-1
D308	C-2	IC711	E-3	Q502	E-1	RV601	F-1
D401	D-1	IC712	A-3	Q503	E-1		
D402	D-1	IC713	B-3	Q504	E-1		
D403	D-1	IC715	D-3	Q505	E-2		
D404	D-1	IC716	F-3	Q506	E-2		
D405	D-2	IC717	E-4	Q507	E-2		
D406	D-2	IC718	F-4	Q508	E-2		
D407	D-2			Q509	E-2		
D408	D-2	Q1	B-2	Q510	E-2		
D501	E-1	Q51	E-1	Q511	E-2		
D502	E-1	Q52	F-1	Q512	E-2		
D503	E-1	Q53	D-1	Q601	F-1		
D504	E-1	Q101	A-1	Q602	F-1		
D505	E-2	Q102	A-1	Q603	F-1		
D506	E-2	Q103	A-1	Q604	F-1		
D507	E-2	Q104	A-1	Q605	F-2		
D508	E-2	Q105	A-2	Q606	F-2		
D601	F-1	Q106	A-2	Q607	F-2		
D602	F-1	Q107	A-2	Q608	F-2		
D603	F-1	Q108	A-2	Q609	F-2		
D604	F-1	Q109	A-2	Q610	F-2		
D605	F-2	Q110	A-2	Q611	F-2		
D606	F-2	Q111	A-2	Q612	F-2		
D607	F-2	Q112	A-2	Q701	D-4		
D608	F-2	Q201	B-1	Q702	D-4		
D701	C-4	Q202	B-1	Q703	C-4		

CP-161A; AUDIO OUTPUT BALANCED AMPLIFIER/DRIVER
 HP-33; HEADPHONES AMPLIFIER/JACK
 VR-62; HEADPHONES LEVEL VOLUME

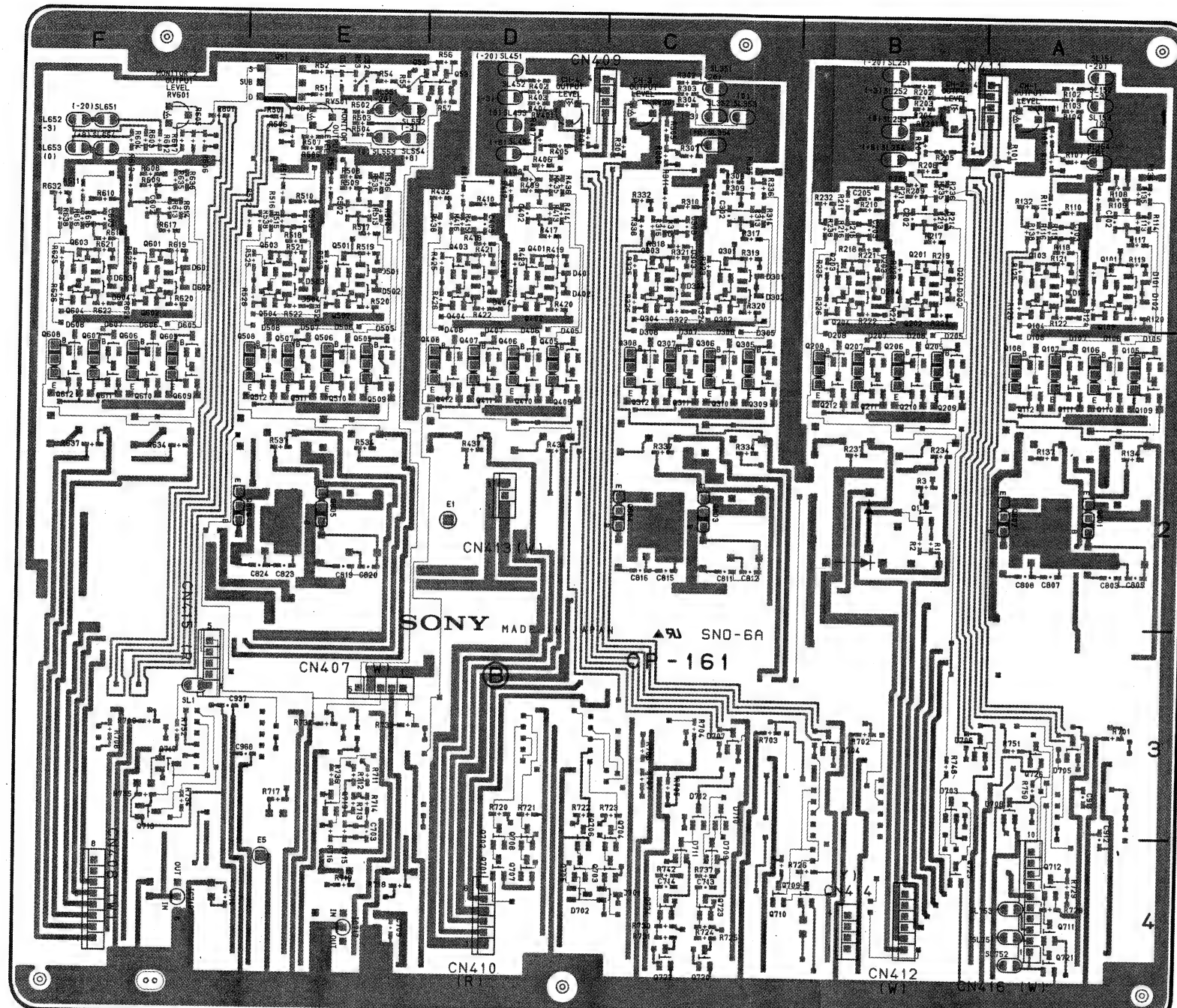
UC; S/N 16570 and higher
 J; S/N 13024 and higher



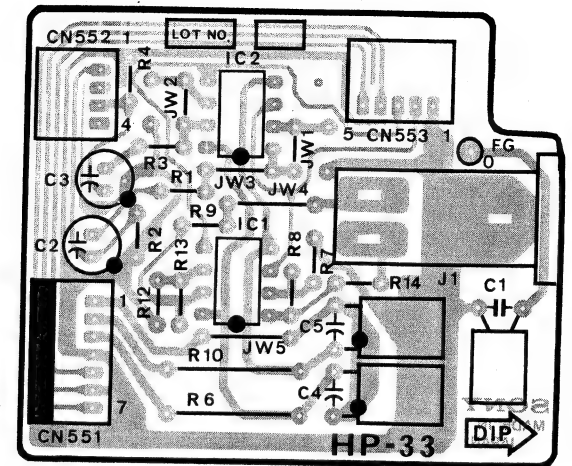
CP-161A
 1-635-401-12
 BVW-75 SERIES



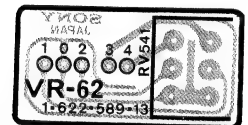
CP-161A —A SIDE—
1-635-401-12
BVW-75 SERIES



CP-161A —B SIDE—
1-635-401-12
BVW-75 SERIES

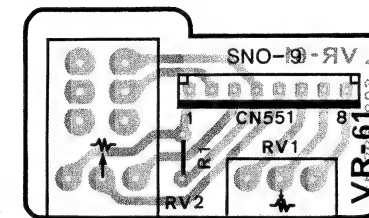


HP-33 —COMPONENT SIDE—
1-622-590-13
BVW-75 SERIES

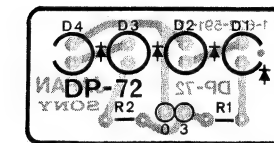


VR-62 —COMPONENT SIDE—
1-622-589-13
BVW-75 SERIES

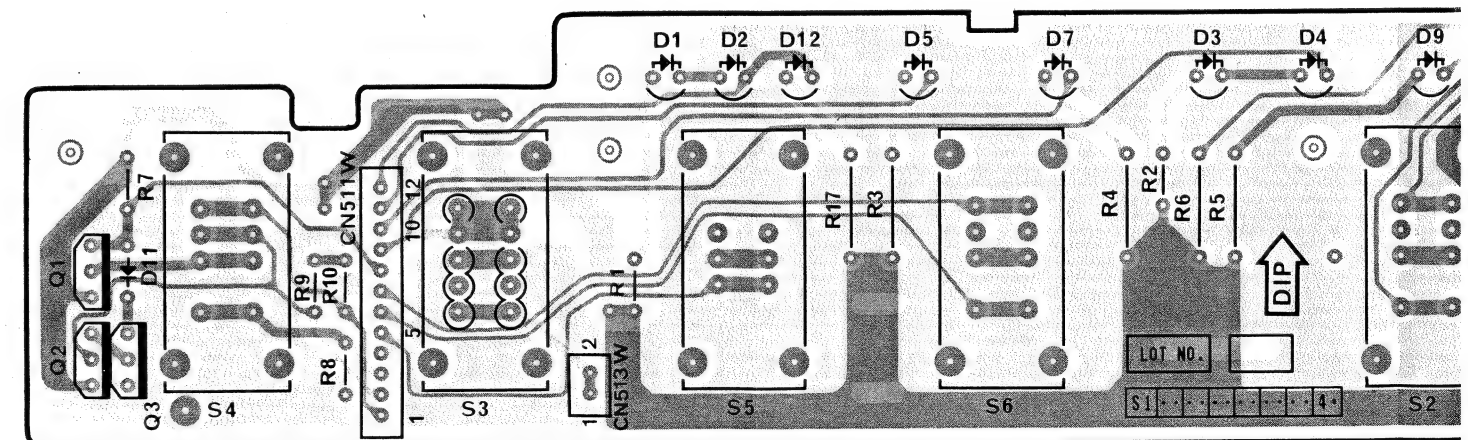
SW-144; SELECT SWITCH/DISPLAY
 VR-61; VIDEO/TRACKING CONTROL VOLUME
 DP-72; VIDEO/RF METER LED
 DP-74; AUDIO LEVEL METER
 DP-73; DC-AC/DC CONVERTER

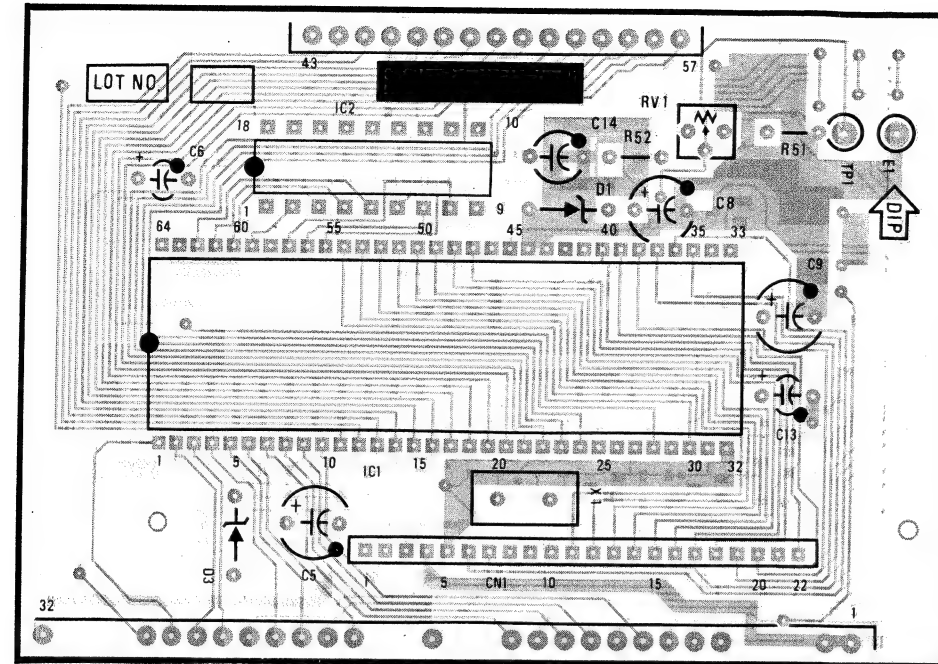


VR-61 -COMPONENT SIDE-
 1-622-588-11
 BVW-70
 BVW-75

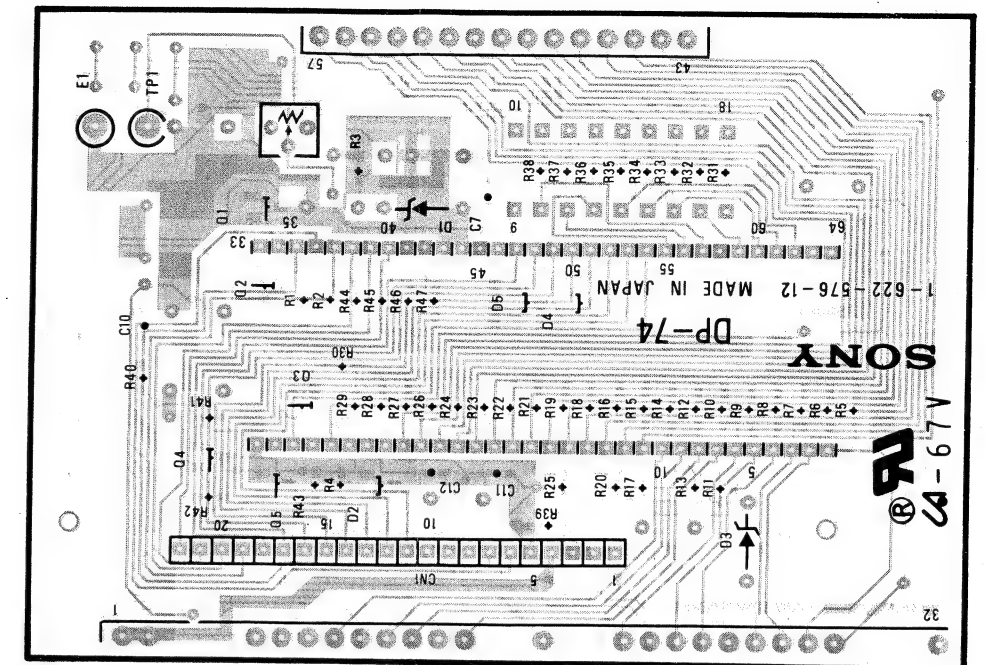


DP-72 -COMPONENT SIDE-
 1-622-591-12
 BVW-70
 BVW-75

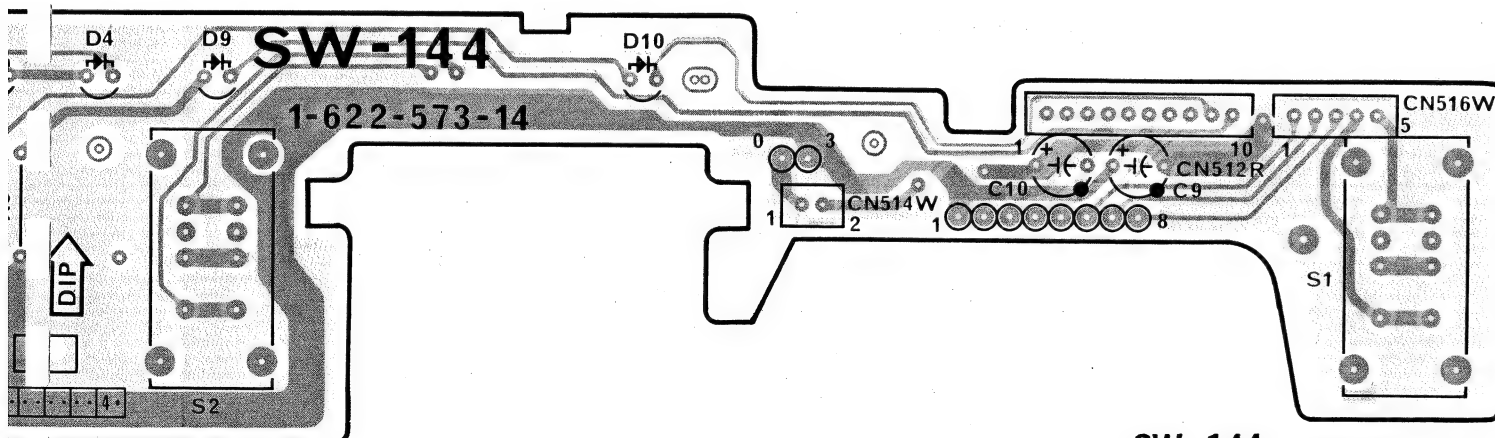




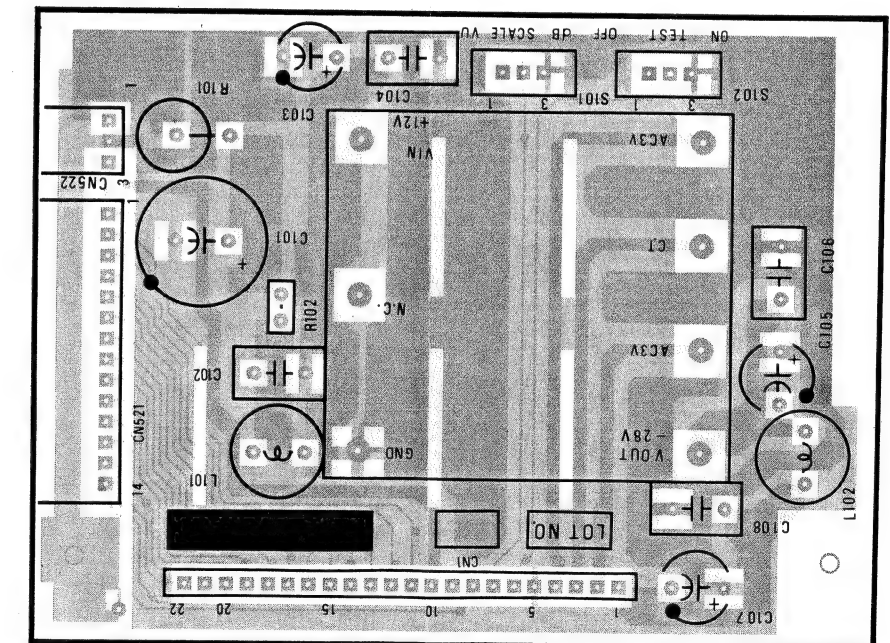
DP-74 - COMPONENT SIDE -
1-622-576-12
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96



DP-74 - SOLDERING SIDE -
1-622-576-12
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96



SW-144 - COMPONENT SIDE -
1-622-573-13, 14
BVW-70
BVW-75



DP-73 - SOLDERING SIDE -
1-622-575-12
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

SV-82/82A; MICROCOMPUTER SERVO

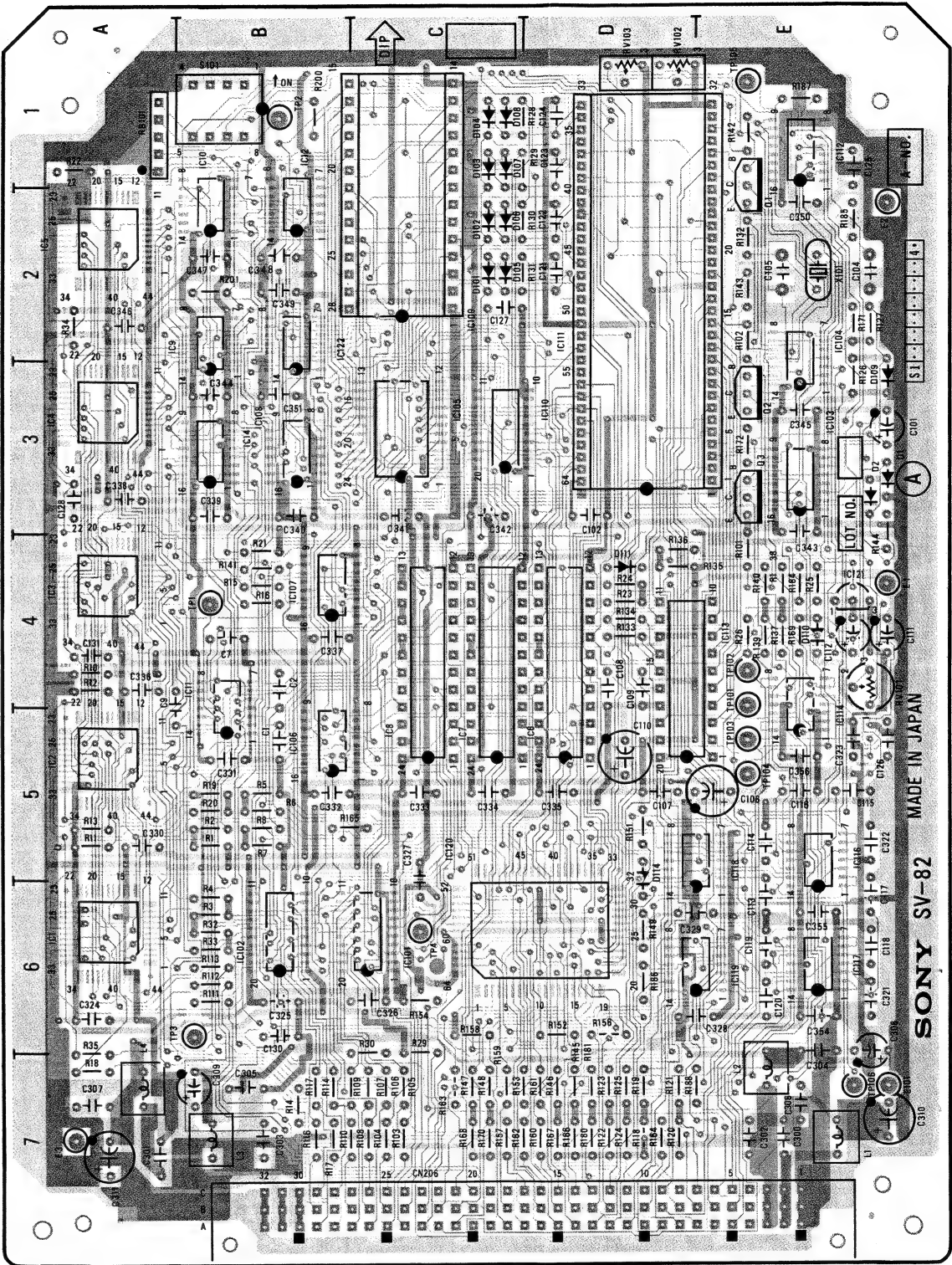
SV-82/82A (1-622-582-13,14)

REF. NO	TYPE	PIN NO.				
		+12V	+5V	GND	-5V	-12V
IC 1	μ PD71054GB		38	16		
IC 2	μ PD71054GB		38	16		
IC 3	μ PD71054GB		38	16		
IC 4	μ PD71054GB		38	16		
IC 5	μ PD71054GB		38	16		
IC 6	CF77074NT		23.24	9.12		
IC 7	CF77074NT		23.24	9.12		
IC 8	CF77074NT		23.24	9.12		
IC 9	TC74HC74F		16	8		
IC 10	SN74HC024NS		14	7		
IC 11	TC74HC14F		14	7		
IC 12	TC74HC14F		14	7		
IC 14	TC4053BF		16	7.8		
IC 101	SN74HC245NS		20	10		
IC 102	TC74HC244F		20	10		
IC 103	TC4052BF		16	8		
IC 104	TC74HC04F		14	6.7		
IC 105	CXK5816M-10		24	12		
IC 106	TC74HC138F		16	8		
IC 107	TC74HC138F		16	8		
IC 108	TC74HC139F		16	8		
IC 109	27256-25		28	14		
IC 110	SN74HC373NS		20	10		
IC 111	μ PD78310CW		64	32		
IC 112	SN74HC4040NS		16	8		
IC 113	μ PC648C	20				17
IC 114	TL084CNS	4				11
IC 116	TL084CNS	4				11
IC 117	TL084CNS	4				11
IC 118	TC4066BF		14	7		
IC 119	TC4066BF		14	7		
IC 120	CXD1095Q		58	10.27.42.57	26	
IC 121	NJM78L0A			2		
IC 122	TC74HC08F		14	7		

SV-82/82A (1-622-582-13,14)

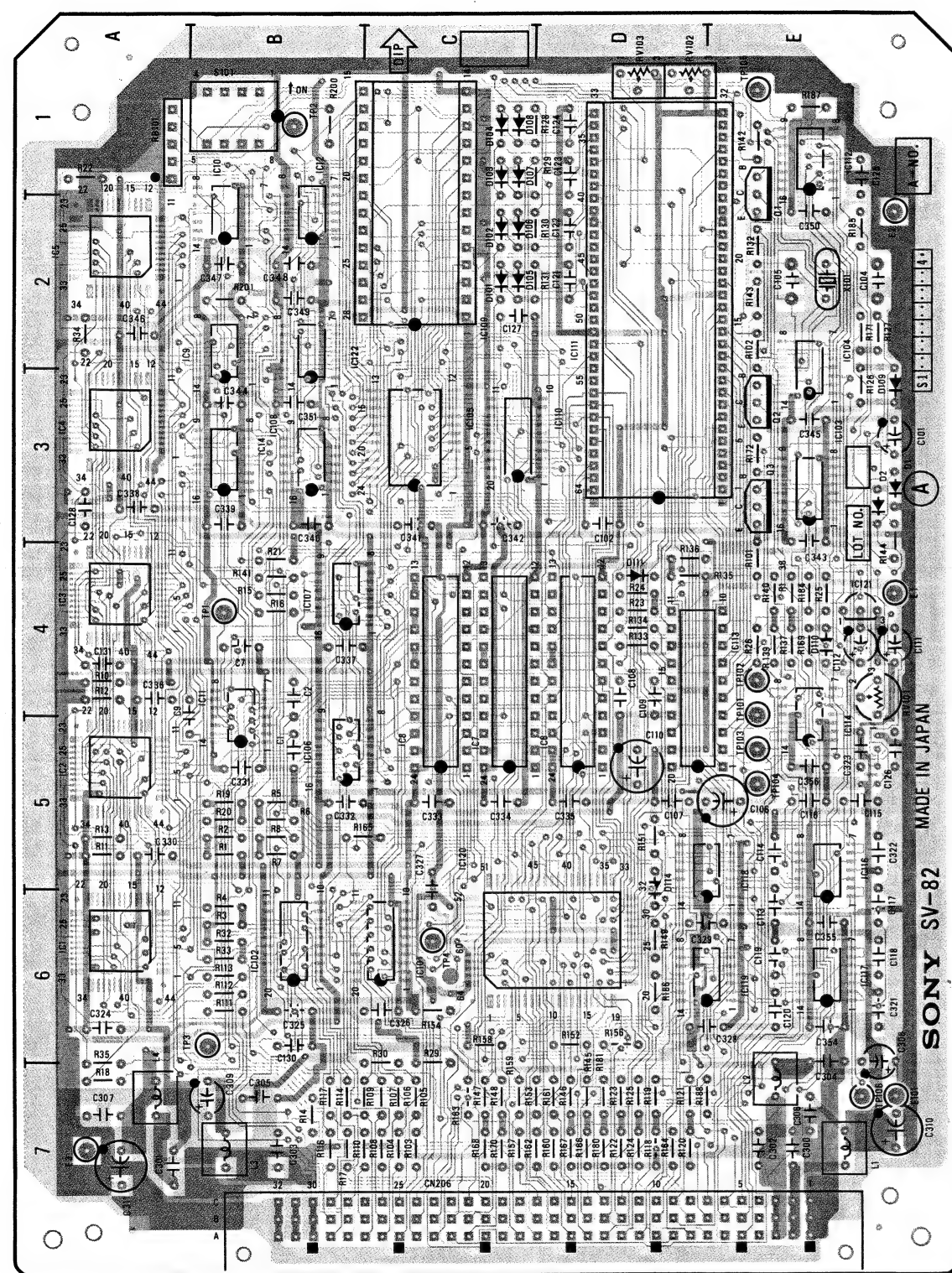
CN206	C-7	Q1	E-2
		Q2	E-3
		Q3	E-3
D101	C-2	RV101	E-4
D102	C-2	RV102	D-1
D103	C-1	RV103	D-1
D104	C-1		
D105	C-2		
D106	C-2	S101	B-1
D107	C-1		
D108	C-1		
D109	E-3	TP1	B-4
D110	E-4	TP2	B-1
D111	D-4	TP3	B-6
D114	D-5	TP4	C-6
		TP101	E-4
		TP102	E-4
		TP103	E-5
		TP104	E-5
		TP105	E-1
		TP106	E-7
E1	E-4		
E2	E-2		
E3	A-7		
E101	E-7		
IC1	A-6	X101	E-2
IC2	A-5		
IC3	A-4		
IC4	A-3		
IC5	A-2		
IC6	D-4		
IC7	C-4		
IC8	C-4		
IC9	B-2		
IC10	B-2		
IC11	B-4		
IC12	B-2		
IC14	B-3		
IC101	C-6		
IC102	B-6		
IC103	E-3		
IC104	E-2		
IC105	C-3		
IC106	B-5		
IC107	B-4		
IC108	B-3		
IC109	C-2		
IC110	C-3		
IC111	D-2		
IC112	E-1		
IC113	D-4		
IC114	E-4		
IC116	E-5		
IC117	E-6		
IC118	D-5		
IC119	D-6		
IC120	C-6		
IC121	E-4		
IC122	B-2		

	SV-82	SV-82A
BVW-60		○
BVW-65		○
BVW-70	○	
BVW-75	○	
BVW-95		○
BVW-96	○	



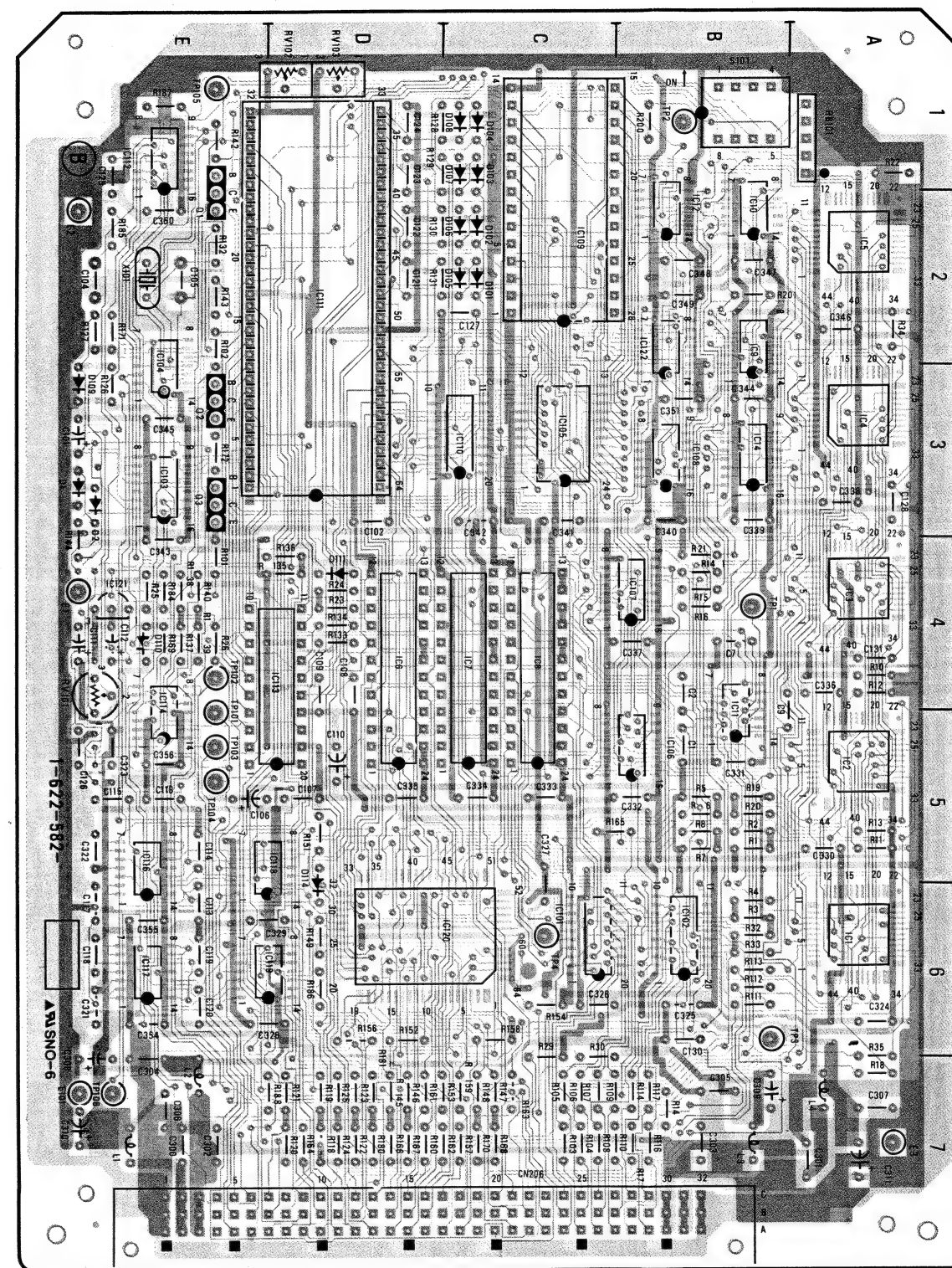
SV-82/82A—COMPONENT SIDE—
1-622-582-13, 14
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

SV-82/82A; MICROCOMPUTER SERVO



SV-82/82A—COMPONENT SIDE—

1-622-582-13, 14
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96



SV-82/82A—SOLDERING SIDE—

1-622-582-13, 14
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96

SV-83/83A/83B; REEL SERVO

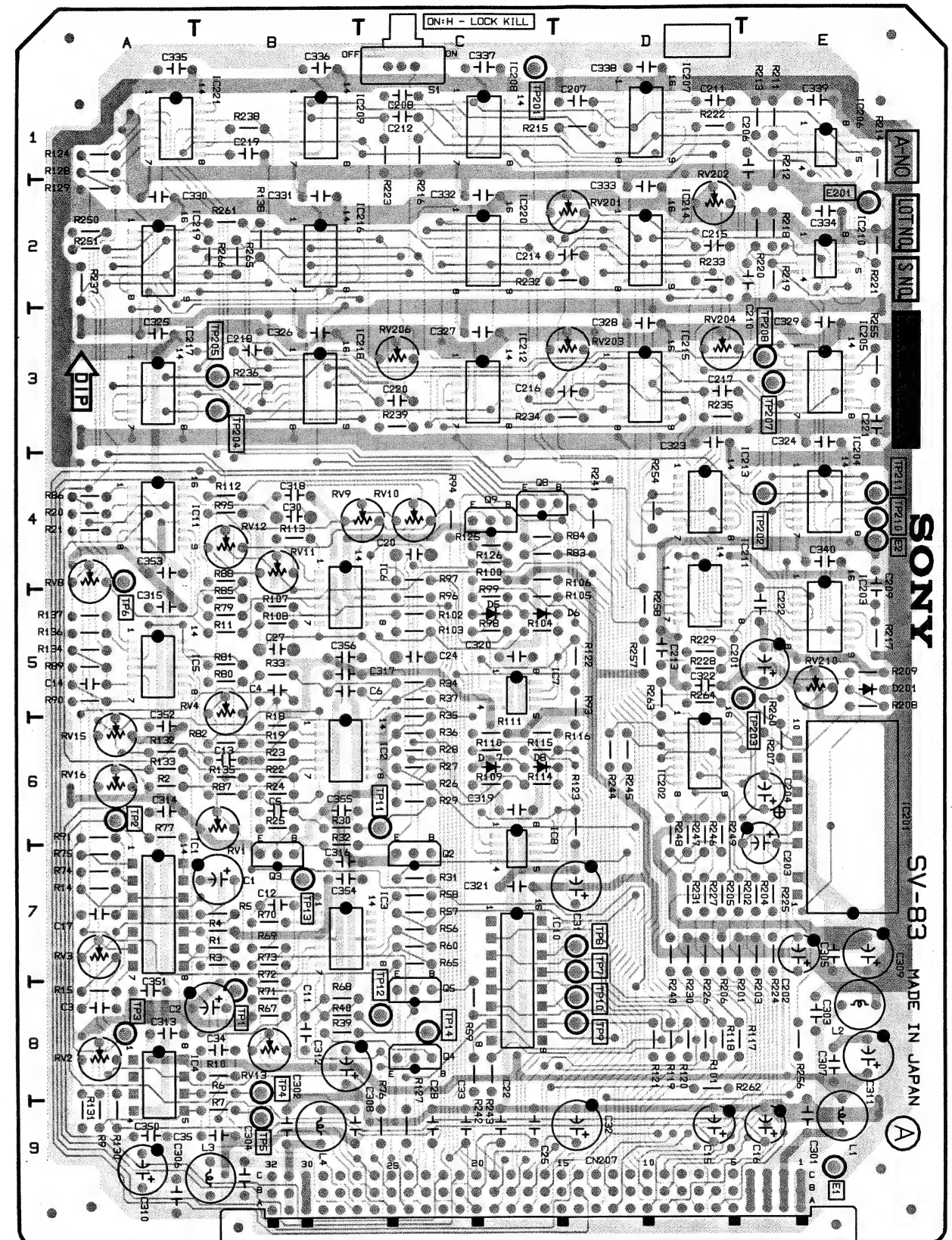
SV-83/83A/83B (1-622-583-12, 13)

PRE. NO	TYPE	PIN NO.				
		+12V	+5V	GND	-5V	-12V
IC 1	PC324C	4			11	
IC 2	TL084CNS	4				11
IC 3	TL084CNS	4				11
IC 4	NJM4558D-FA	8			4	
IC 5	TL084CNS	4			11	
IC 6	TL084CNS	4				11
IC 7	NJM2903M	8		4		
IC 8	NJM2903M	8		4		
IC 10	CX23028		12, 16	8		
IC 11	TC4053BFHB		16		7	
IC 201	BX3915A	10		2, 8		
IC 202	TC4053BFHB		16	8	7	
IC 203	TC4538BF		16	8		
IC 204	TC504013BF		14	7		
IC 205	TC4081BF		14	7		
IC 206	NJM2903M	8		4		
IC 207	TC4538BF		16	8		
IC 208	TC4024BF		14	7		
IC 209	TC4024BF		14	7		
IC 210	NJM2903M	8		4		
IC 211	TC4011BF		14	7		
IC 212	TC4011BF		14	7		
IC 213	TC504013BF		14	7		
IC 214	TC4538BF		16	8		
IC 215	TC4538BF		16	8		
IC 216	TC504013BF		14	7		
IC 217	TC504013BF		14	7		
IC 218	TC4538BF		16	8		
IC 219	TC4053BFHB		16		7	
IC 220	TC74HC160BF		16	8		
IC 221	TC4030BF		14	7		

	SV-83	SV-83A	SV-83B
BVW-60			○
BVW-65			○
BVW-70		○	
BVW-75	○		
BVW-95			○
BVW-96	○		

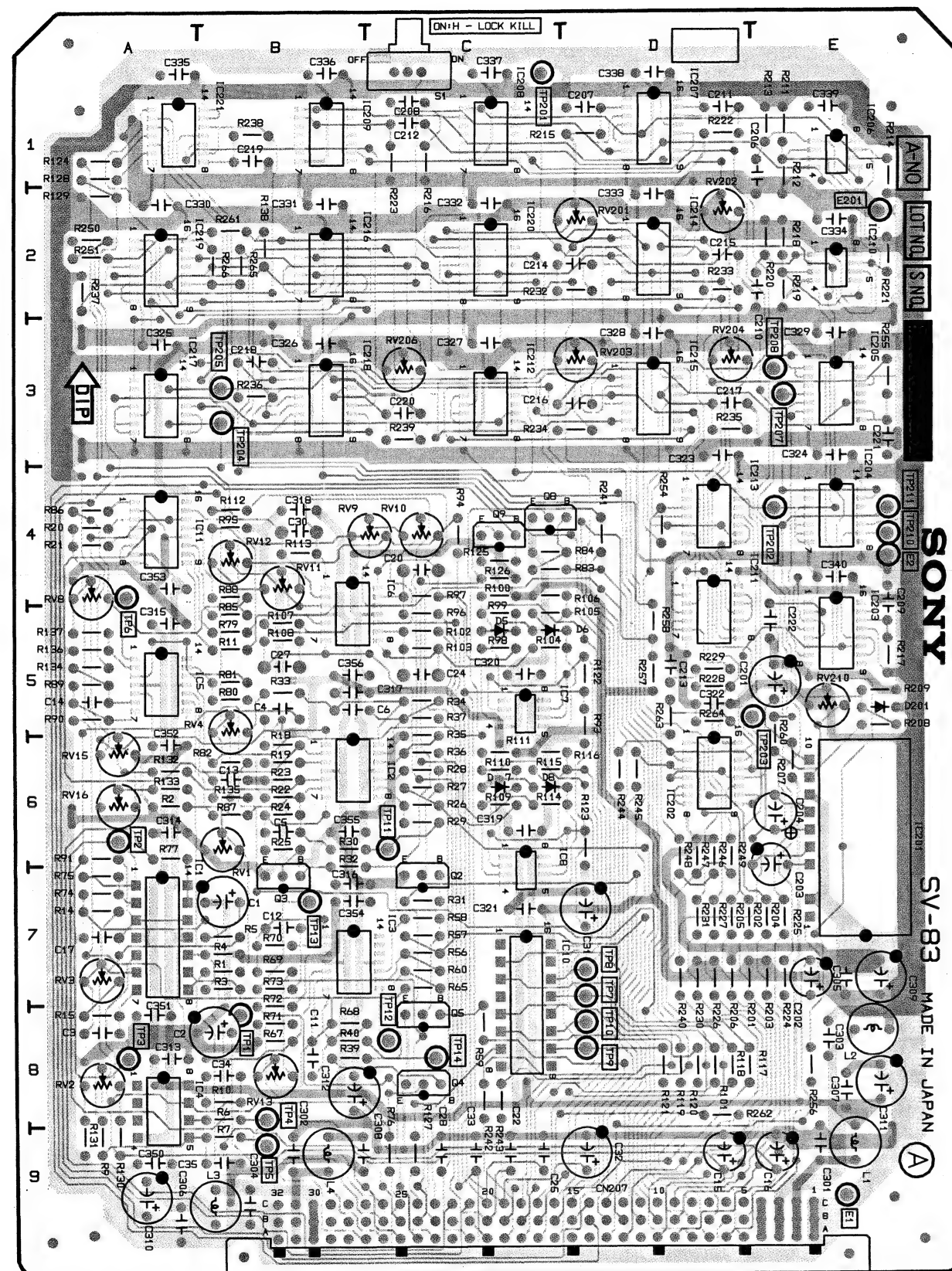
SV-83/83A/83B (1-622-583-12, 13)

CN207	D-9	TP1	A-8
D5	C-5	TP2	A-6
D6	C-5	TP3	A-8
D7	C-6	TP4	B-9
D8	C-6	TP5	B-9
D201	E-5	TP6	A-4
		TP7	D-8
		TP8	D-7
E1	E-9	TP9	D-8
E2	E-4	TP10	D-8
E201	E-2	TP11	B-6
		TP12	B-8
		TP13	B-7
IC1	A-7	TP14	C-8
IC2	B-6	TP201	C-1
IC3	B-7	TP202	E-4
IC4	A-8	TP203	E-6
IC5	A-5	TP204	A-3
IC6	B-5	TP205	A-3
IC7	C-5	TP207	E-3
IC8	C-7	TP208	E-3
IC10	C-8	TP210	E-4
IC11	A-4	TP211	E-4
IC201	E-6		
IC202	D-6		
IC203	E-5		
IC204	E-4		
IC205	E-3		
IC206	E-1		
IC207	D-1		
IC208	C-1		
IC209	B-1		
IC210	E-2		
IC211	D-5		
IC212	C-3		
IC213	D-4		
IC214	D-2		
IC215	D-3		
IC216	B-2		
IC217	A-3		
IC218	B-3		
IC219	A-2		
IC220	C-2		
IC221	A-1		
Q2	C-7		
Q3	B-7		
Q4	C-8		
Q5	C-8		
Q8	C-4		
Q9	C-4		
RV1	B-7		
RV2	A-8		
RV3	A-7		
RV4	A-5		
RV8	A-4		
RV9	B-4		
RV10	C-4		
RV11	B-4		
RV12	A-4		
RV13	B-8		
RV15	A-6		
RV16	A-6		
RV201	D-2		
RV202	D-2		
RV203	D-3		
RV204	D-3		
RV206	B-3		
RV210	E-5		
S1	A-3		

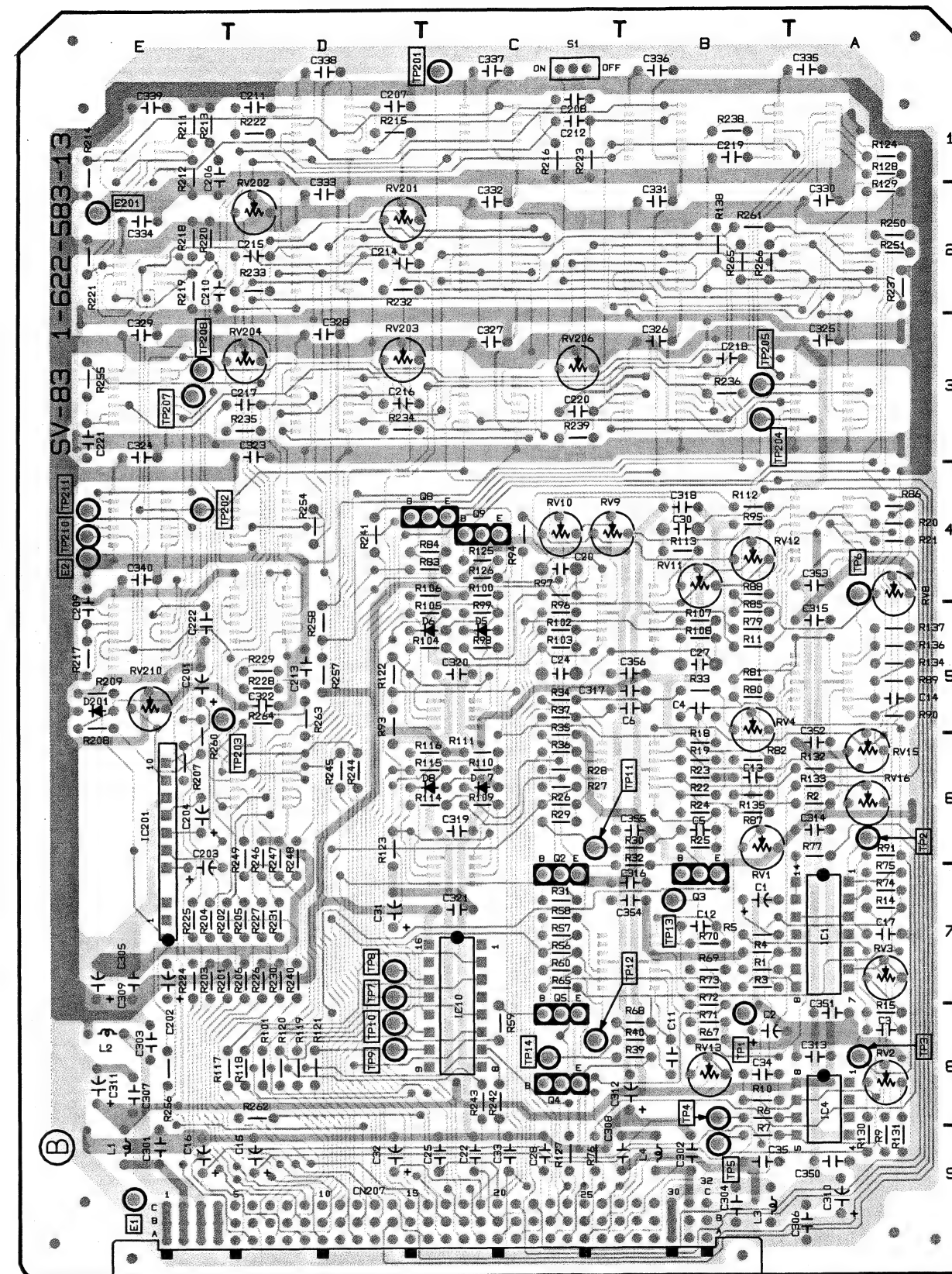


SV-83/83A/83B—COMPONENT SIDE—
 1-622-583-12, 13
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96

SV-83/83A/83B; REEL SERVO



SV-83/83A/83B—COMPONENT SIDE—
1-622-583-12, 13
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96



SV-83/83A/83B—SOLDERING SIDE—
1-622-583-12, 13
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

SV-84; CAPSTAN/DRUM SERVO

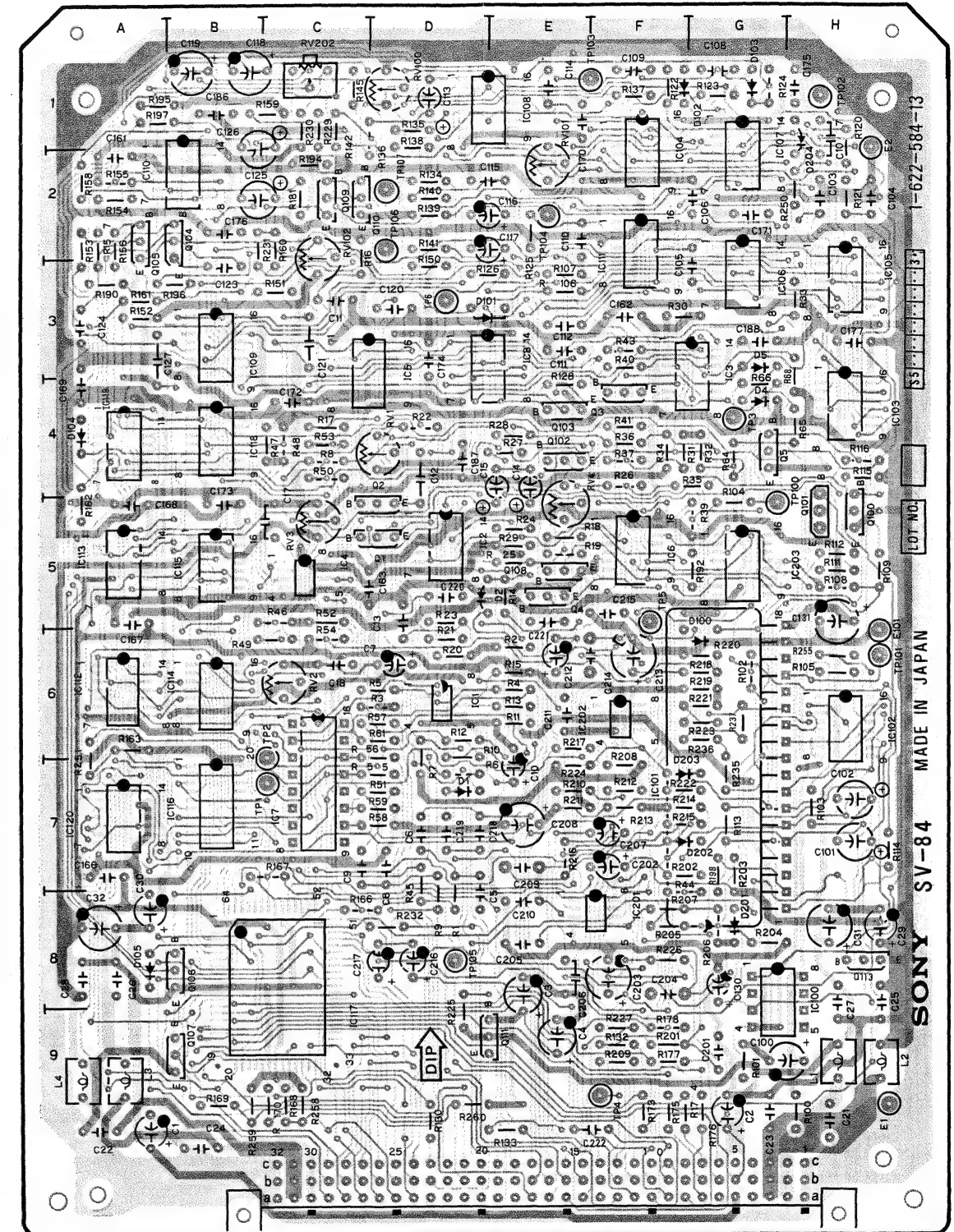
SV-84 (1-622-584-13)

PRE.NO	TYPE	PIN NO.					
		V REF.	+12V V	+5V	GND	-5V	-12V
IC 1	NJM2903M	8			4		
IC 2	TL084CNS		4			11	
IC 3	TL084CNS		4			11	
IC 4	NJM2903M		8		4		
IC 5	TC4538BF			16	8		
IC 6	TC4053BFHB		16		8	7	
IC 7	CX23028			12.16	8		
IC 8	TC4011BF			14	7		
IC 100	NJM4558D-D	*	8		*	*	*
IC 101	BX3914	*	*	*	17	*	*
IC 102	TC4053BFHB		16		8		
IC 103	TC4053BFHB		16		8		
IC 104	TC4053BFHB		16		8		
IC 105	TC4538BF			16	8		
IC 106	TC4001BF			14	7		
IC 107	TC4071BF			14	7		
IC 108	TC4538BF			16	8		
IC 109	SN74LS221NS			16	8		
IC 110	TL084CNS		4				11
IC 111	TC4538BF			16	8		
IC 112	TC40H000F			14	7		
IC 113	TC40H000F			14	7		
IC 114	SN74HC193F			16	8		
IC 115	SN74HC193F			16	8		
IC 116	SN74LS683NS			20	10		
IC 117	CXD1095Q			26.58	10.25.42.57		
IC 118	TC74HC4049F			1	8		
IC 119	TC74HC74F			14	7		
IC 120	TC74HC32F			14	7		
IC 201	NJM2903M			8	4		
IC 202	NJM2903M		16		8		
IC 203	TC4053BFHB						

*REFER TO SCHEMATIC

SV-84 (1-622-584-13)

CN208	E-9	Q1	D-5
D1	D-7	Q2	D-5
D2	D-5	Q3	F-4
D4	G-4	Q4	E-5
D5	G-3	Q5	G-4
D100	G-6	Q100	H-5
D101	D-3	Q101	H-5
D102	F-1	Q102	E-4
D103	G-1	Q103	E-4
D104	A-4	Q104	B-2
D105	A-8	Q105	A-2
D201	G-8	Q106	B-8
D202	F-7	Q107	B-9
D203	F-7	Q108	E-5
D204	H-1	Q109	C-2
		Q110	C-2
		Q111	D-9
		Q113	H-8
E1	H-9	RV1	D-4
E2	H-1	RV2	C-6
E101	H-6	RV3	C-5
IC1	D-6	RV4	E-5
IC2	D-5	RV100	D-1
IC3	G-3	RV101	E-2
IC4	C-5	RV102	C-2
IC5	D-3	RV202	C-1
IC6	F-5		
IC7	C-7	TP1	C-7
IC8	E-3	TP2	C-7
IC100	G-8	TP3	G-4
IC101	G-7	TP4	F-9
IC102	H-6	TP5	F-5
IC103	H-4	TP6	D-3
IC104	F-1	TP100	G-5
IC105	H-3	TP101	H-6
IC106	G-3	TP102	H-1
IC107	G-2	TP103	E-1
IC108	E-1	TP104	E-2
IC109	B-3	TP105	D-8
IC110	B-2	TP106	D-2
IC111	F-2	TP107	D-2
IC112	A-6		
IC113	A-5		
IC114	B-6		
IC115	B-5		
IC116	B-7		
IC117	C-8		
IC118	B-4		
IC119	A-4		
IC120	A-7		
IC201	F-8		
IC202	F-6		
IC203	G-5		



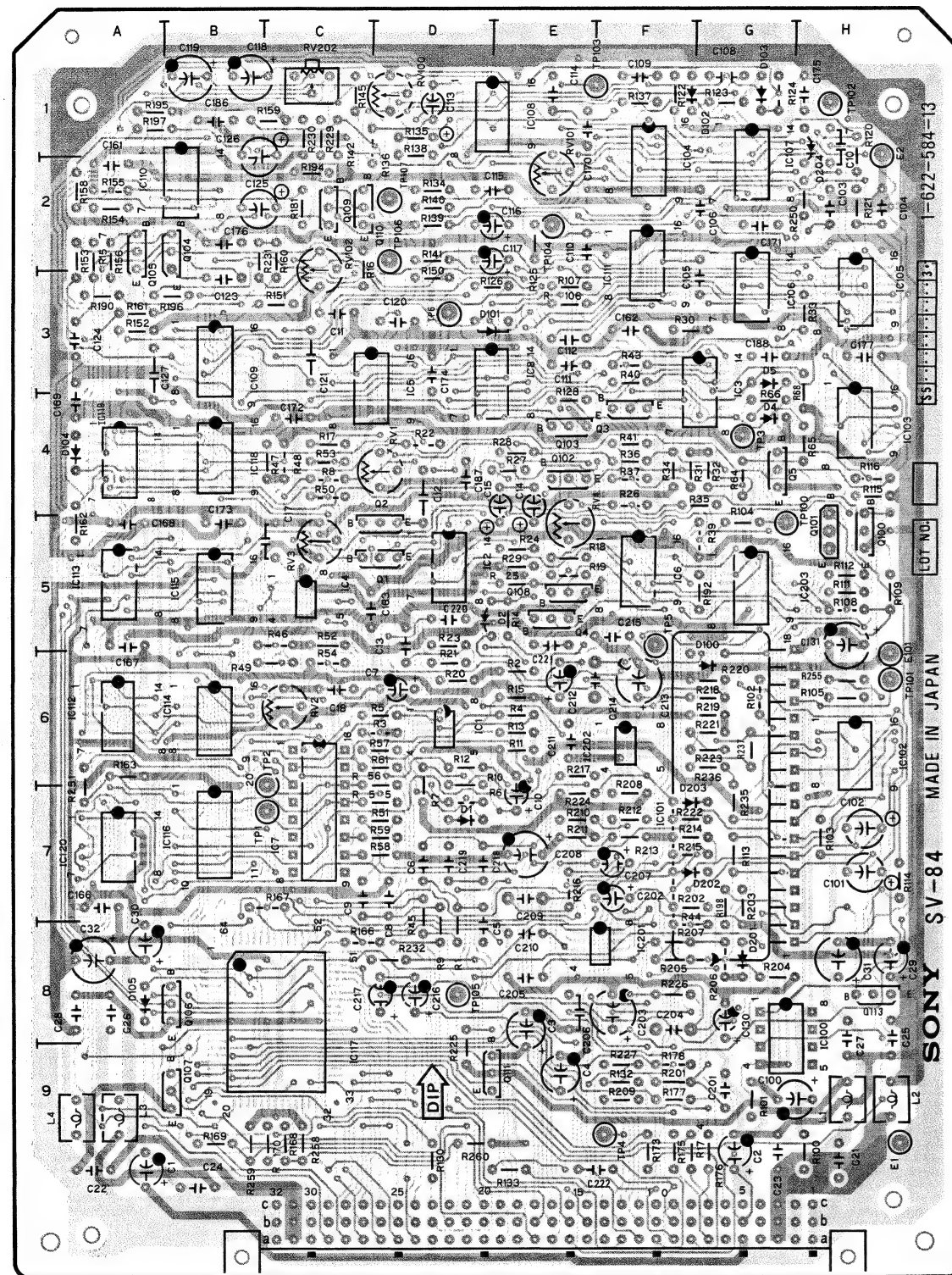
SV-84 —COMPONENT SIDE—
 1-622-584-13
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96

SV-84; CAPSTAN/DRUM SERVO

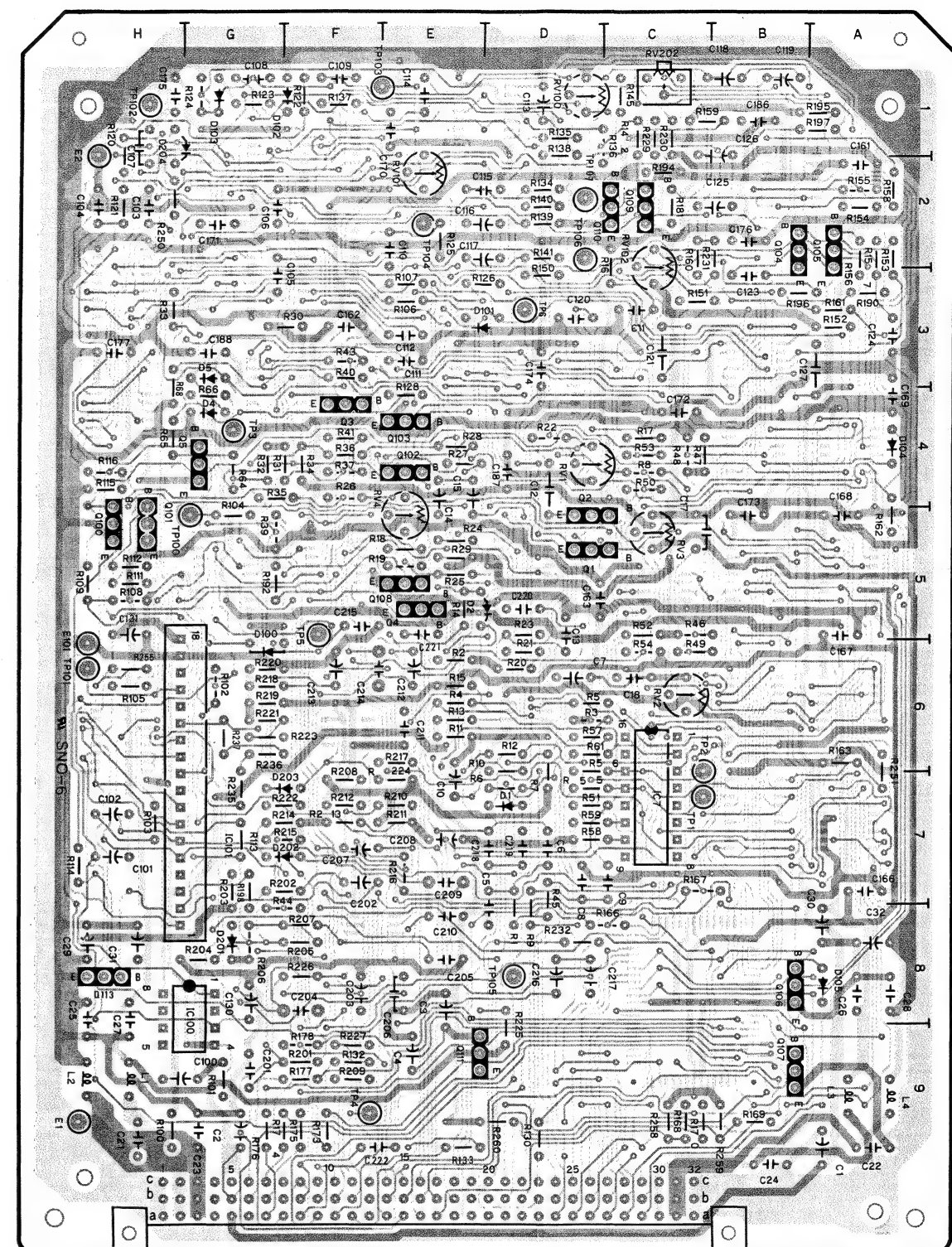
D-5
D-5
F-4
E-5
G-4
H-5
E-4
B-4
B-2
A-2
B-8
B-9
F-5
C-2
D-9
H-8

D-4
E-6
C-5
D-1
E-2
C-2
C-1

F-7
D-7
G-4
F-9
F-5
D-3
A-6
H-1
E-2
D-8
D-2
D-2



SV-84 -COMPONENT SIDE-
1-622-584-13
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96



SV-84 -SOLDERING SIDE-
1-622-584-13
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

RE-28 (1-622-559-12)

REF. NO.	TYPE	PIN NO.	
		+12V	GND
IC 1	CX877	8	9

RE-28 (1-622-559-12)

CN811 C-2
CN812 C-2
CN813 D-2
CN814 B-2
CN815 C-1
CN816 D-1
CN817 C-1
CN818 D-1
CN819 D-1
CN820 D-1
CN821 A-1
CN822 A-2
CN823 B-1
CN824 A-2

D1 B-1

E1 D-2

IC1 B-1

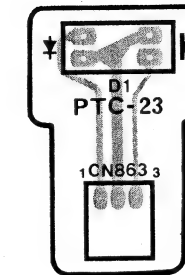
Q1 D-2
Q2 D-1
Q3 D-2
Q4 C-2
Q5 B-2
Q6 B-2

DR-56 (1-622-561-12)

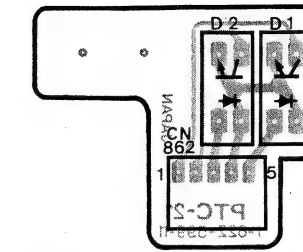
CN841 K-1
CN842 F-1
CN843 A-1

Q1 G-1
Q2 G-1
Q3 H-1
Q4 H-1
Q5 I-1
Q6 J-1
Q7 J-1
Q8 E-1
Q9 E-1
Q10 D-1
Q11 C-1
Q12 B-1

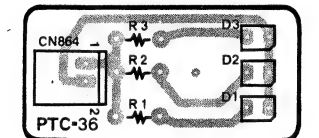
RE-28; DRUM/CAPSTAN MOTOR DRIVER
PTC-20; CASSETTE DETECTOR
PTC-21; REEL TABLE POSITION DETECTOR
PTC-23; REC INHIBIT DETECTOR
PTC-36; CASSETTE DETECTOR
DR-56; DRUM ERROR AMPLIFIER, CAPSTAN/REEL MOTOR DRIVER



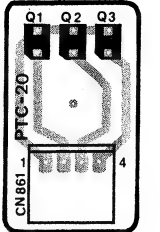
PTC-23 — COMPONENT SIDE —
1-622-600-11
BVW-70
BVW-75
BVW-96



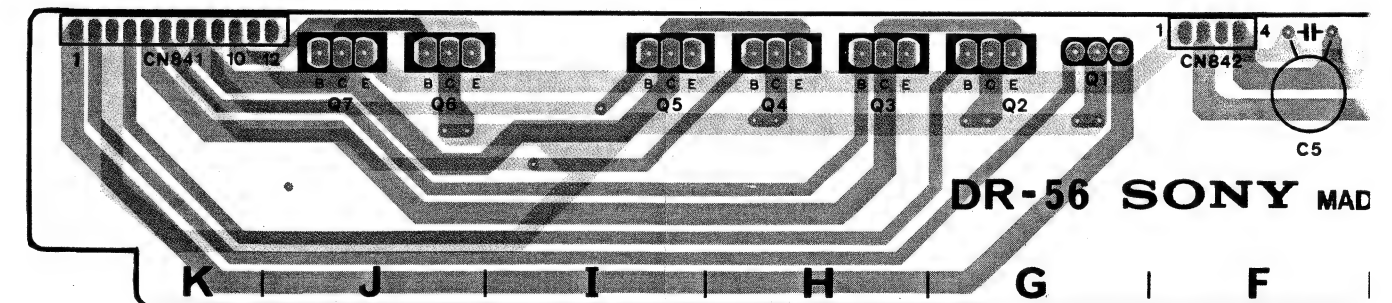
PTC-21 — COMPONENT SIDE —
1-622-599-11
BVW-60 BVW-75
BVW-65
BVW-70



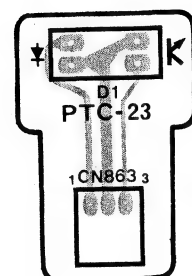
PTC-36 — COMPONENT SIDE —
1-622-601-11
BVW-60 BVW-75
BVW-65
BVW-70



PTC-20 — COMPONENT SIDE —
1-622-598-11
BVW-60 BVW-75
BVW-65
BVW-70

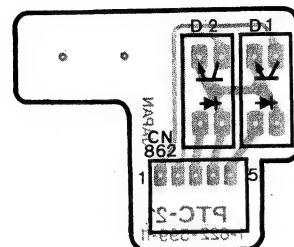


RE-28 ; DRUM/CAPSTAN MOTOR DRIVER
 PTC-20 ; CASSETTE DETECTOR
 PTC-21 ; REEL TABLE POSITION DETECTOR
 PTC-23 ; REC INHIBIT DETECTOR
 PTC-36 ; CASSETTE DETECTOR
 DR-56 ; DRUM ERROR AMPLIFIER, CAPSTAN/REEL MOTOR DRIVER



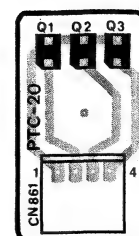
PTC-23 — COMPONENT SIDE —

1-622-600-11
 BVW-70
 BVW-75
 BVW-96



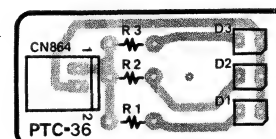
PTC-21 — COMPONENT SIDE —

1-622-599-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



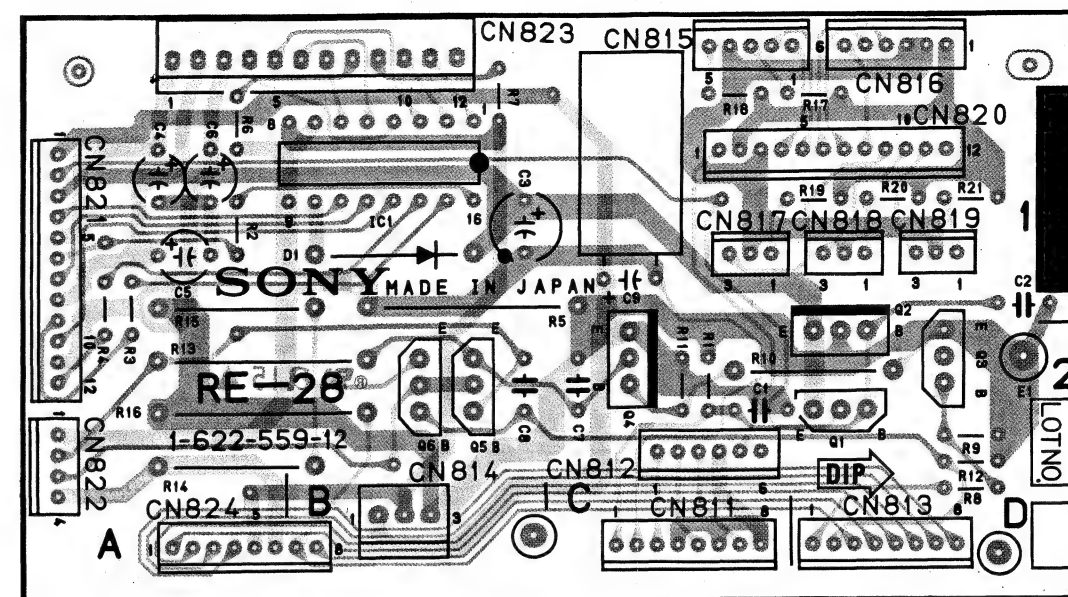
PTC-20 — COMPONENT SIDE —

1-622-598-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



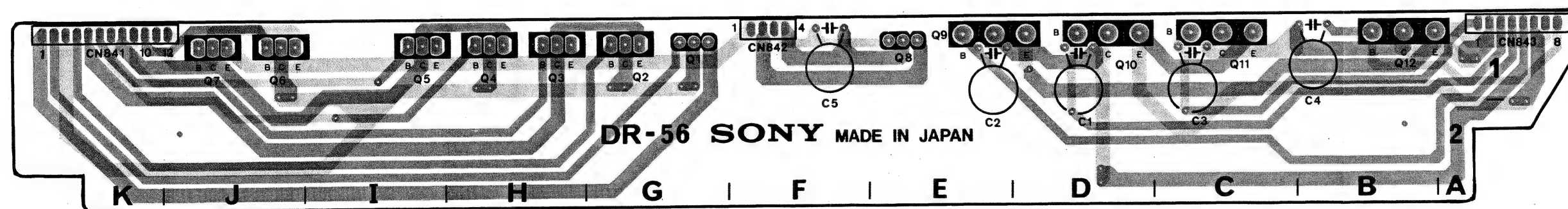
PTC-36 — COMPONENT SIDE —

1-622-601-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



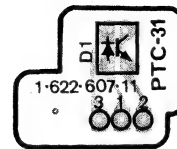
RE-28 — COMPONENT SIDE —

1-622-559-12
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96

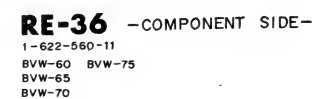
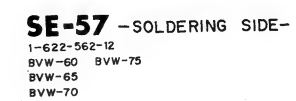
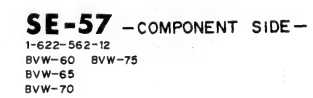


DR-56 — SOLDERING SIDE —

1-622-561-12
 BVW-60 BVW-75
 BVW-65
 BVW-70



PTC-31 - COMPONENT SIDE-
1- 622-607-11
BVW-60 BVW-75
BVW-65
BVW-70



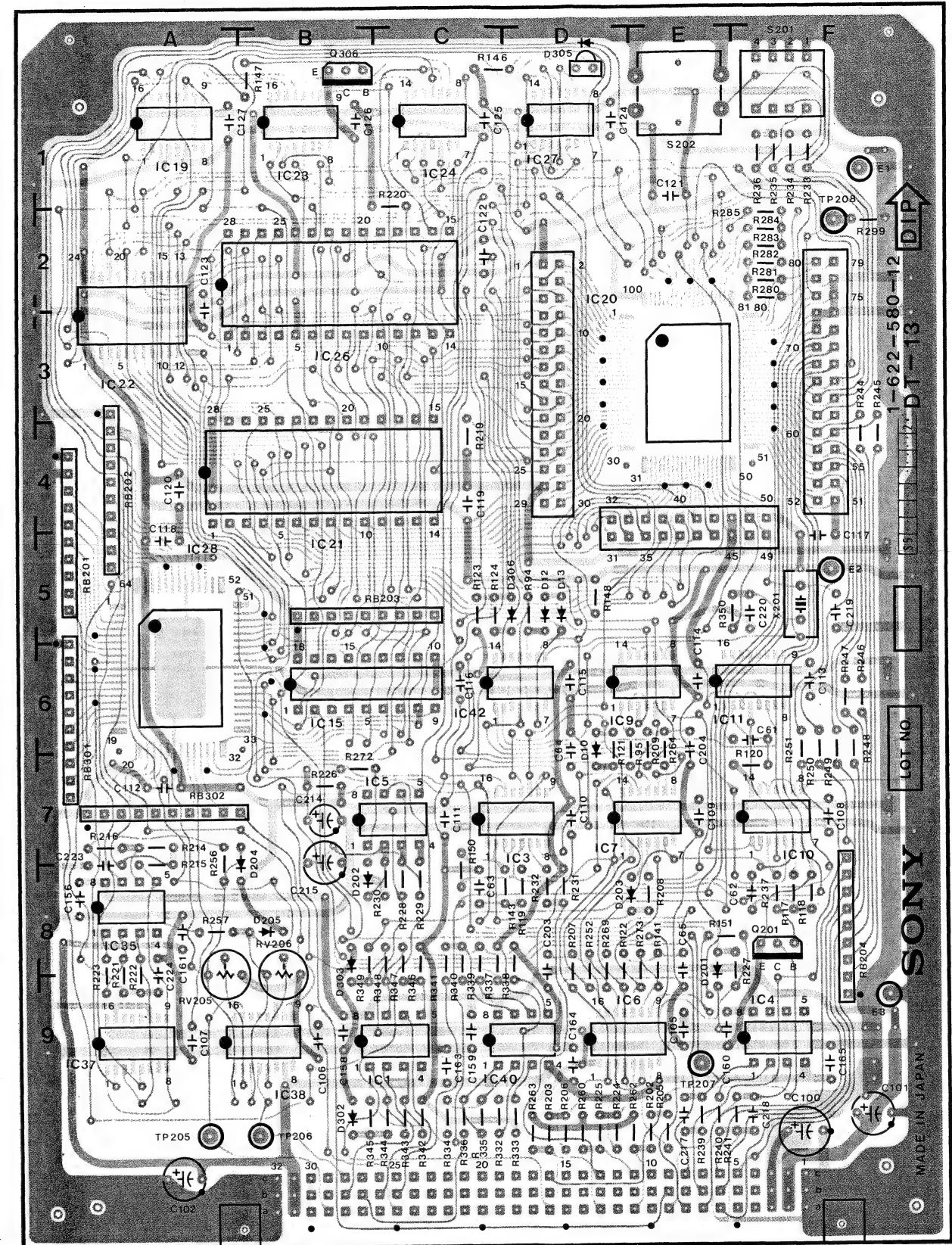
DT-13; DYNAMIC TRACKING

DT-13 (1-622-580-12)

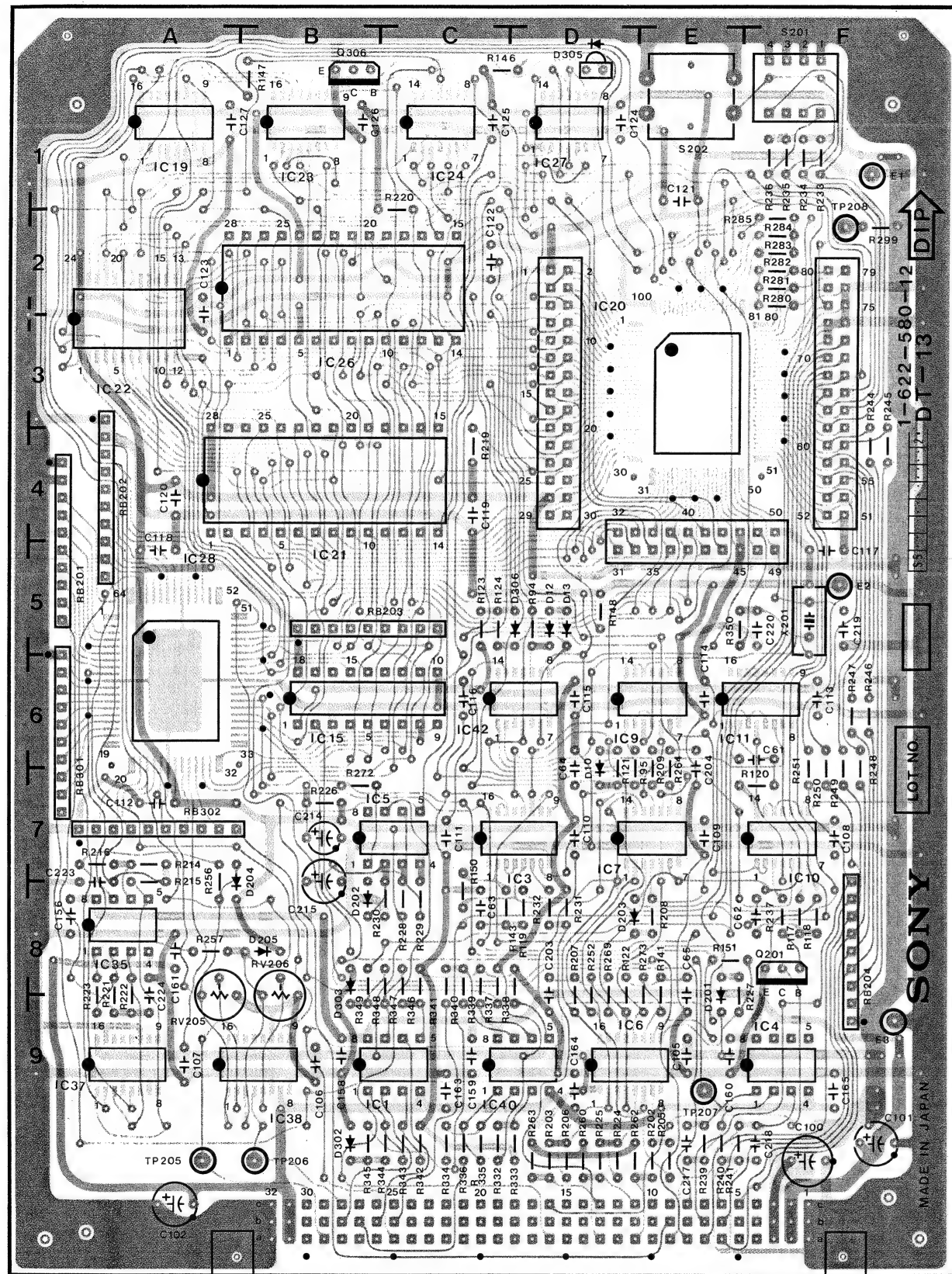
PRE. NO	TYPE	PIN NO.			
		+12V	+5V	GND	-12V
IC 1	μ PC4558C	8	14	7	4
IC 3	SN74HC368NS	8			4
IC 4	μ PC4558C				
IC 5	NJM2903D		8	4	
IC 6	TC4050BF		1	8	
IC 7	TC4030BF		14	7	
IC 9	TC4001BF		14	7	
IC 10	TC4081BF		14	7	
IC 11	TC4538BF		16	8	
IC 15	MSM5204ARS		18	3.10	
IC 19	TC40H163F		16	8	
IC 20	TMP284C011AF-6		11	29	
IC 21	MBM2764-25		28	14	
IC 22	CXK5816M-12L		24	12	
IC 23	TC40H139F		16	8	
IC 24	TC40H032F		14	7	
IC 26	TMP284C30AP-6		24	5	
IC 27	TC74HC74F		16	8	
IC 28	CXD1095Q		16	8	
IC 35	μ PC4558C	8			4
IC 37	TC4053BF		16	8	
IC 38	TC4053BF		16	8	
IC 40	μ PC4558C	8			4
IC 42	TC504013BF		14	7	

DT-13 (1-622-580-12)

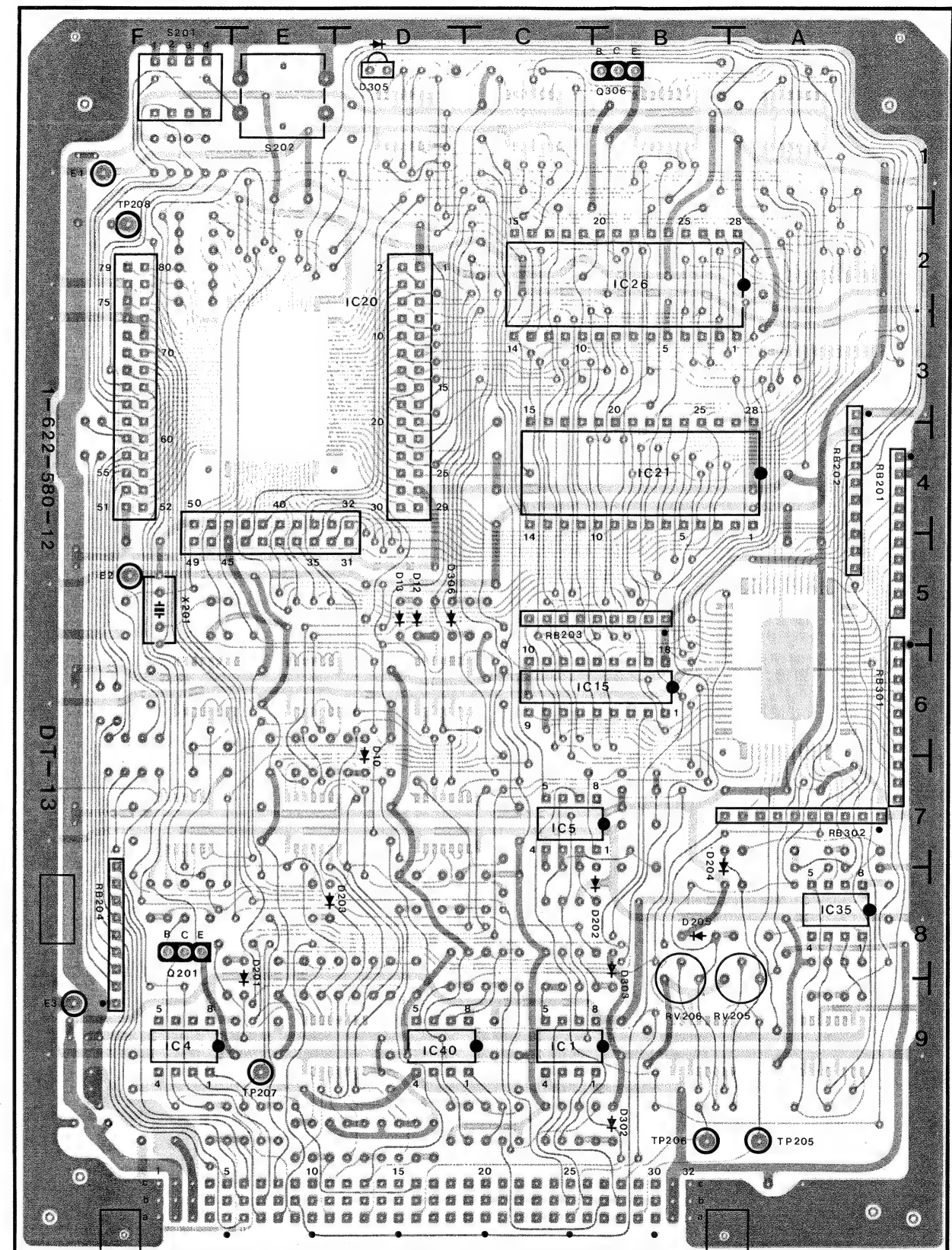
CN1	D-9
D10	D-6
D12	D-5
D13	D-5
D201	E-8
D202	B-8
D203	D-8
D204	B-7
D205	B-8
D302	B-9
D303	B-8
D305	D-1
D306	D-5
E1	F-1
E2	F-5
E3	F-9
IC1	C-9
IC3	D-7
IC4	F-9
IC5	C-7
IC6	D-9
IC7	E-7
IC9	E-6
IC10	F-7
IC11	F-6
IC15	B-6
IC19	A-1
IC20	E-3
IC21	B-4
IC22	A-3
IC23	B-1
IC24	C-1
IC26	B-2
IC27	D-1
IC28	A-6
IC35	A-8
IC37	A-9
IC38	B-9
IC40	D-9
IC42	D-6
Q201	F-8
Q306	B-1
RV205	A-9
RV206	B-9
S201	F-1
S202	E-1
TP205	A-9
TP206	B-9
TP207	E-9
TP208	F-2
X201	F-5



DT-13 — COMPONENT SIDE —
 1-622-580-12
 BVW-65 BVW-96
 BVW-75
 BVW-95



DT-13 -COMPONENT SIDE-
1-622-580-12
BVW-65 BVW-96
BVW-75
BVW-95



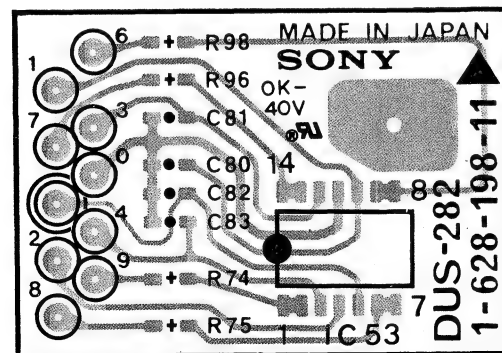
DT-13 -SOLDERING SIDE-
1-622-580-12
BVW-65 BVW-96
BVW-75
BVW-95

DT-14 (1-622-581-11)

REF. No	TYPE	PIN NO.				
		+12V	+9V	+5V	GND	-12V
IC 1	HD14538BFP			16	8	
IC 2	TC504013BF			14	7	
IC 3	μ PC4558C	8				4
IC 4	μ PC4558C	8				4
IC 5	μ PC4558C	8				4
IC 6	μ PC4558C	8				4
IC 7	μ PC4558C	8				4
IC 8	μ PC4558C	8				4
IC 9	HD14538BFP			16	8	
IC 10	HD14538BFP			16	8	
IC 11	μ PC4558C	8				4
IC 12	TC4023BF			14	7	
IC 13	TC4063UBF			14	7	
IC 14	TC4011BF			14	7	
IC 15	μ PC4558C	8				4
IC 16	μ PC4558C	8				4
IC 17	μ PC4558C	8				4
IC 18	μ PC4558C	8				4
IC 19	μ PC4558C	8				4
IC 20	μ PC4558C	8				4
IC 21	TC4053BF			16	8	
IC 22	TC4053BF			16	8	
IC 23	TC4053BF			16	8	
IC 43	TC504013BF			14	7	
IC 44	HD14538BFP			16	8	
IC 45	TC4030BF			14	7	
IC 46	HD14538BFP			16	8	
IC 47	TC504013BF			14	7	
IC 48	HD14538BFP			16	8	
IC 50	TC4053BF			16	8	
IC 51	TC4053BF			16	8	
IC 101	CX20061		1		5	
IC 102	AN608P	2			4	
IC 103	HA12411	11			4.14.16	
IC 104	BX3915A	10			2.8	
IC 105	NJM2903D	8				4
IC 106	HD14538BFP			16	8	

DT-15 (1-622-558-12)

REF. No	TYPE	PIN NO.	
		+12V	-12V
IC 7	NJM4558M	8	4
IC 8	NJM4558M	8	4
IC 9	NJM4558M	8	4
IC 10	NJM4558M	8	4



DUS-282 - COMPONENT SIDE -
1-628-198-11
BVW-65 BVW-96
BVW-75
BVW-95

DT-14 (1-622-581-11)

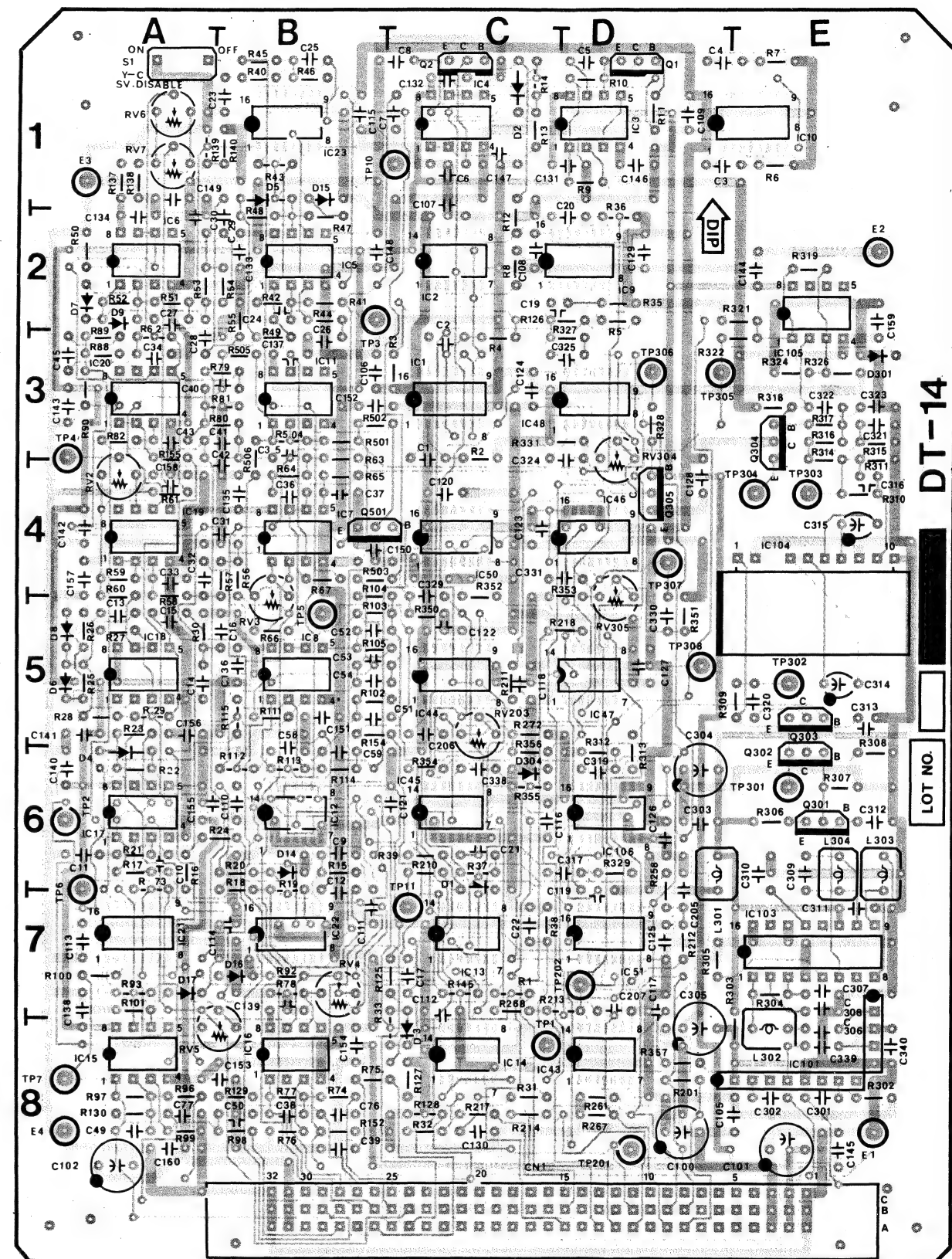
CN1	C-8	IC13	C-7	RV2	A-4
D1	C-6	IC14	C-8	RV3	B-5
D2	C-1	IC15	A-8	RV4	B-7
D3	C-8	IC16	B-8	RV5	B-8
D4	A-6	IC17	A-6	RV6	A-1
D5	B-1	IC18	A-5	RV7	A-1
D6	A-5	IC19	A-4	RV203	C-5
D7	A-2	IC20	A-3	RV304	C-4
D8	A-5	IC21	A-7	RV305	D-5
D9	A-2	IC22	B-7		
D14	B-6	IC23	B-1	S1	A-1
D15	B-1	IC43	D-8		
D16	B-7	IC44	C-5	TP1	C-8
D17	A-7	IC45	C-6	TP2	A-6
D301	E-3	IC46	D-6	TP3	B-2
D304	C-6	IC47	D-5	TP4	A-3
		IC48	D-2	TP5	B-5
		IC50	C-4	TP6	A-6
E1	E-8	IC51	D-8	TP7	A-8
E2	E-2	IC101	E-8	TP10	C-1
E3	A-1	IC102	E-8	TP11	D-7
E4	A-8	IC103	E-7	TP201	D-8
		IC104	E-5	TP202	D-7
		IC105	E-2	TP301	E-6
IC1	C-3	IC106	D-6	TP302	E-5
IC2	C-2			TP303	E-4
IC3	D-1			TP304	E-4
IC4	C-1	Q1	D-1	TP305	D-3
IC5	B-2	Q2	C-1	TP306	D-3
IC6	A-2	Q301	E-6	TP307	D-4
IC7	B-4	Q302	E-6		
IC8	B-5	Q303	E-5		
IC9	D-2	Q304	E-3		
IC10	E-1	Q305	D-4		
IC11	B-3	Q501	B-4		
IC12	B-6				

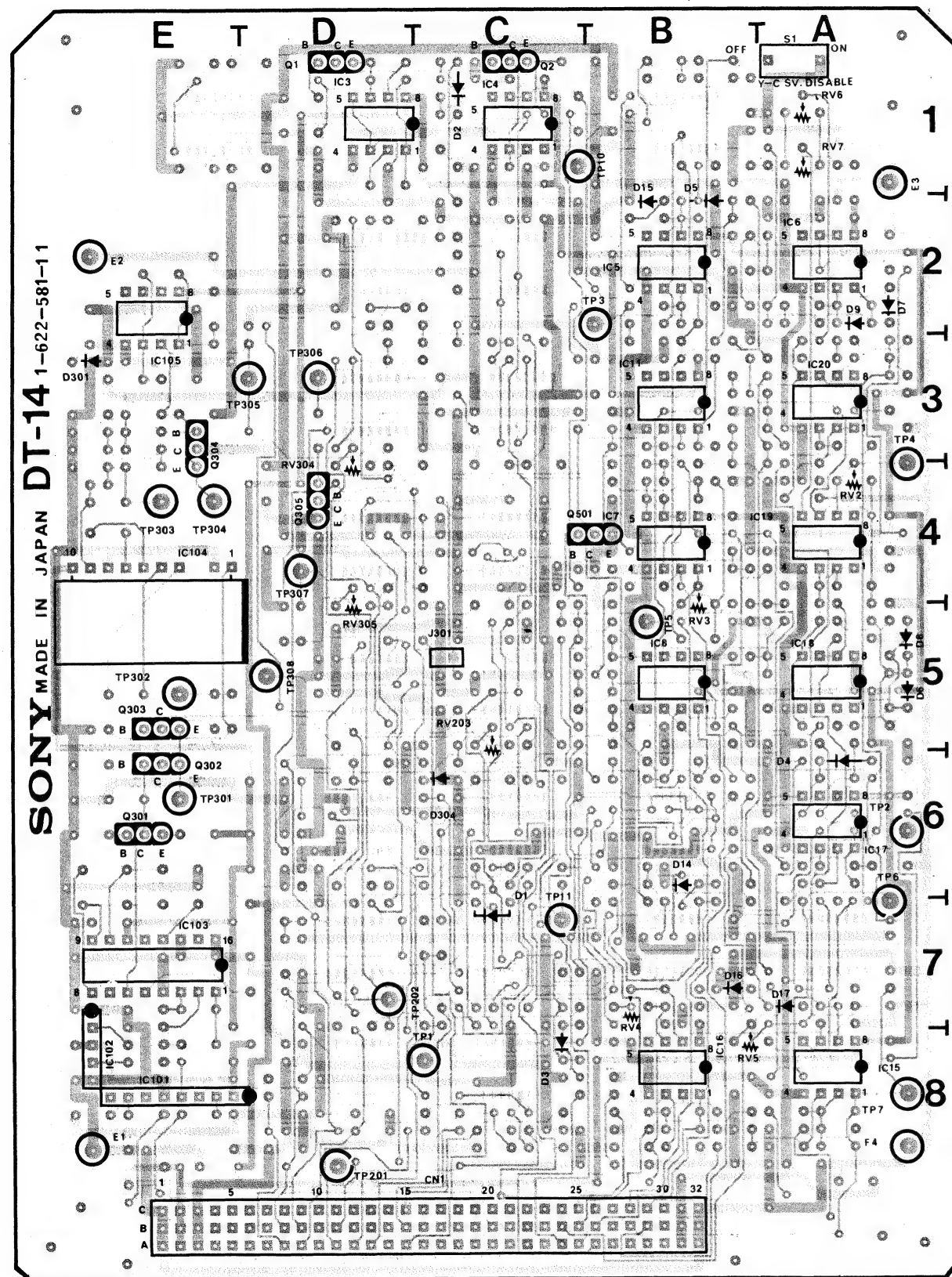
DT-15 (1-622-558-12)

CN611	D-1	IC7	D-1	RV2	A-2
CN612	D-2	IC8	D-2	T1	A-1
		IC9	D-2	TP8	A-1
		IC10	D-2	TP10	A-1
D1	A-1	Q1	A-1		
D2	A-2	Q2	A-1		
D3	A-2	Q6	D-1		
D4	B-2	Q7	D-1		
D5	B-2	Q8	D-1		
D7	D-1	Q9	C-1		
D8	D-1	Q10	C-1		
D9	D-2	Q11	C-1		
D11	A-2	Q12	D-2		
D12	D-1	Q13	D-2		
D15	D-2	Q14	D-2		
E1	A-1	Q15	C-2		
F1	B-1	Q16	C-2		
		Q17	C-2		

DT-14; DYNAMIC TRACKING
DUS-282; STRAIN GAGE BUFFER
DT-15; DYNAMIC TRACKING

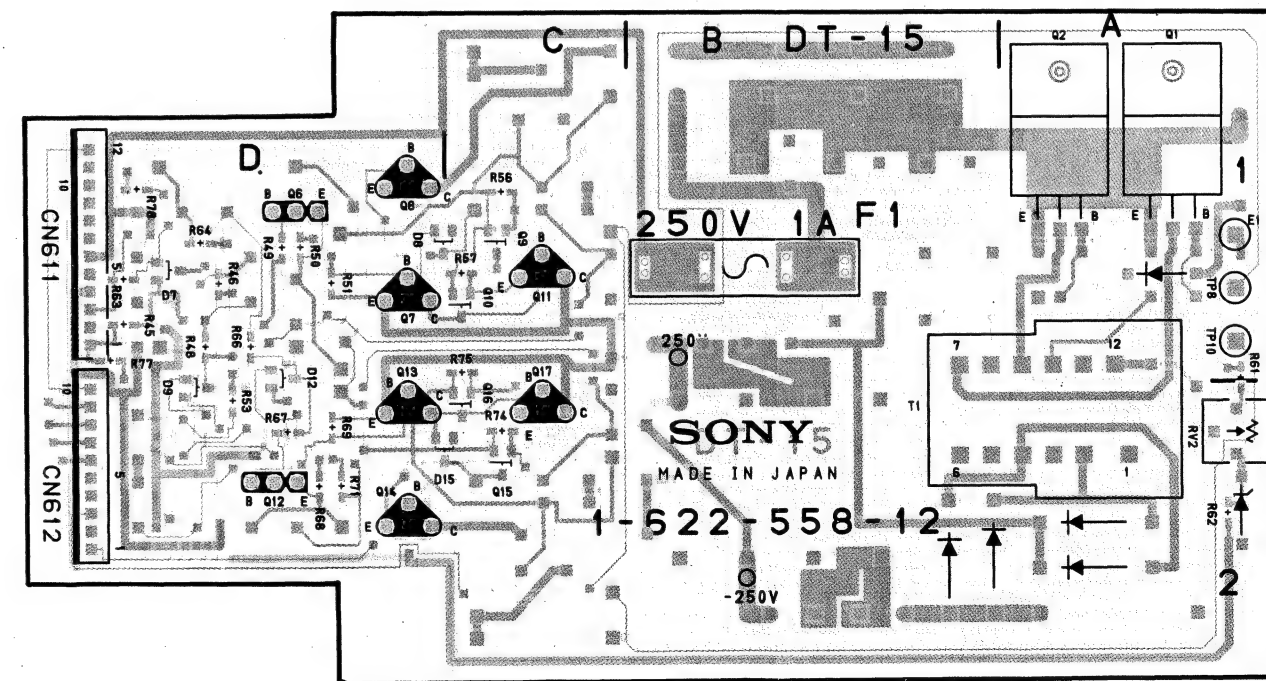
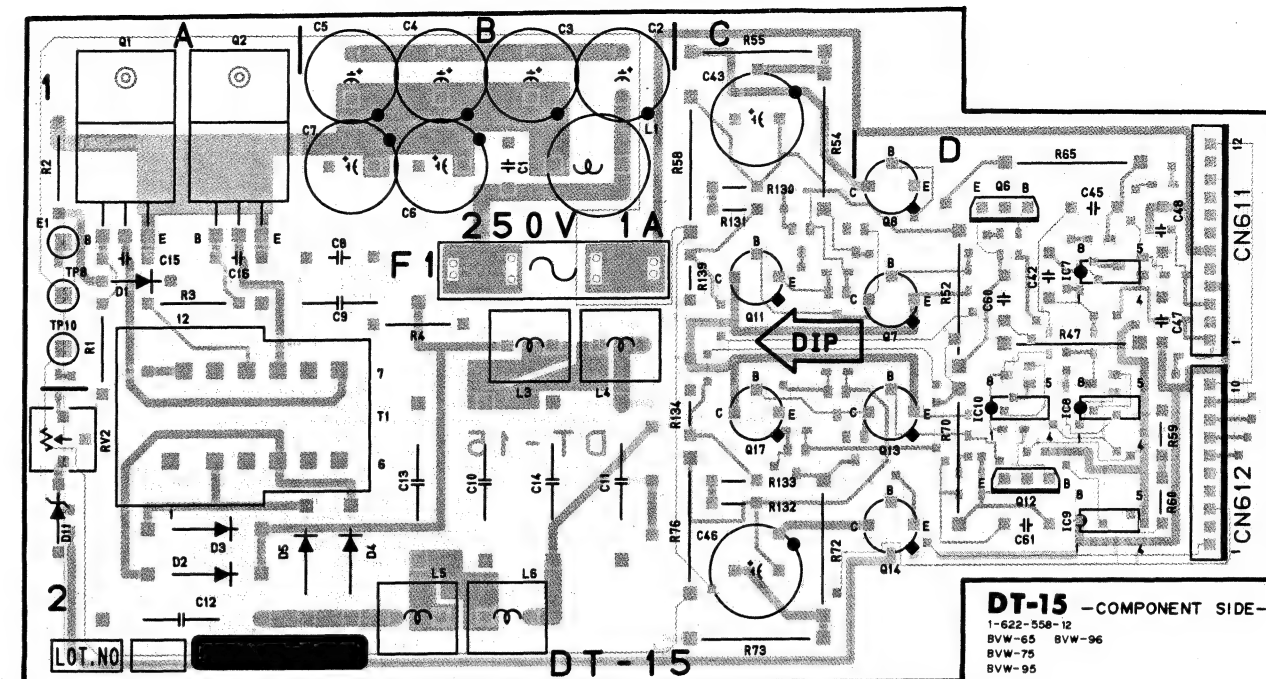
UC; Up to S/N 14656
J; Up to S/N 11948





DT-14 -SOLDERING SIDE-
 1-622-581-11
 BVW-65 BVW-96
 BVW-75
 BVW-95

17-173 (a)



DT-15 -SOLDERING SIDE-
 1-622-558-12
 BVW-65 BVW-96
 BVW-75
 BVW-95

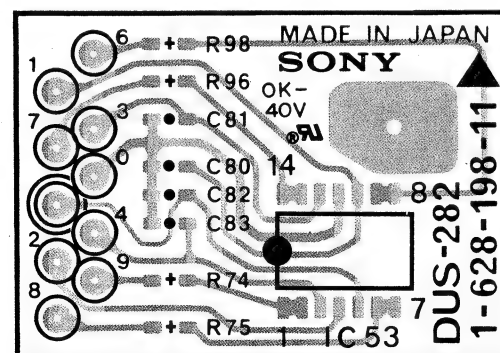
17-174 (a)

DT-14 (1-622-581-11)

REF.No	TYPE	PIN NO.				
		+12V	+9V	+5V	GND	-12V
IC 1	HD14538BFP			16	8	
IC 2	TC504013BF			14	7	
IC 3	μ PC4558C	8				4
IC 4	μ PC4558C	8				4
IC 5	μ PC4558C	8				4
IC 6	μ PC4558C	8				4
IC 7	μ PC4558C	8				4
IC 8	μ PC4558C	8				4
IC 9	HD14538BFP			16	8	
IC 10	HD14538BFP			16	8	
IC 11	μ PC4558C	8				4
IC 12	TC4023BF			14	7	
IC 13	TC4069UBF			14	7	
IC 14	TC4011BF			14	7	
IC 15	μ PC4558C	8				4
IC 16	μ PC4558C	8				4
IC 17	μ PC4558C	8				4
IC 18	μ PC4558C	8				4
IC 19	μ PC4558C	8				4
IC 20	μ PC4558C	8				4
IC 21	TC4053BF			16	8	
IC 22	TC4053BF			16	8	
IC 23	TC4053BF			16	8	
IC 43	TC504013BF			14	7	
IC 44	HD14538BFP			16	8	
IC 45	TC4030BF			14	7	
IC 46	HD14538BFP			16	8	
IC 47	TC504013BF			14	7	
IC 48	HD14538BFP			16	8	
IC 50	TC4053BF			16	8	
IC 51	TC4053BF			16	8	
IC 101	CX20061		1		5	
IC 102	AN608P				4	
IC 103	HA12411	2			4.14.16	
IC 104	BX3915A	11			2.8	
IC 105	NJM2903D	10				
IC 106	HD14538BFP	8		16	8	4

DT-15(1-622-558-13,14)

REF. No	TYPE	PIN NO.	
		+ 12V	- 12V
IC 7	NJM4558M	8	4
IC 8	NJM4558M	8	4
IC 9	NJM4558M	8	4
IC 10	NJM4558M	8	4



DUS-282 - COMPONENT SIDE -
1-628-198-11
BVW-65 BVW-96
BVW-75
BVW-95

DT-14 (1-622-581-11)

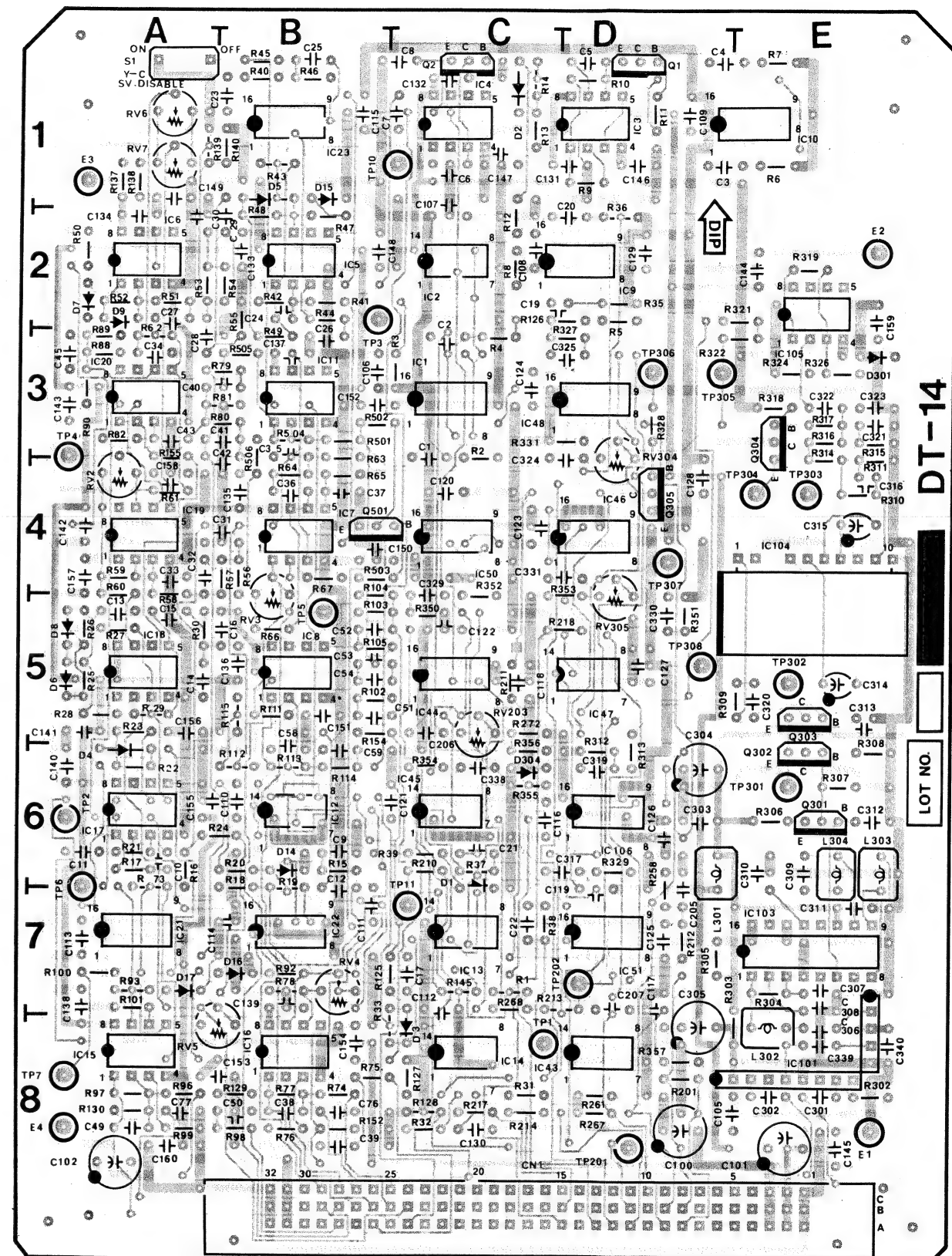
CNI	C-8	IC13	C-7	RV2	A-4
D1	C-6	IC14	C-8	RV3	B-5
D2	C-1	IC15	A-8	RV4	B-7
D3	C-8	IC16	B-8	RV5	B-8
D4	A-6	IC17	A-6	RV6	A-1
D5	B-1	IC18	A-5	RV7	A-1
D6	A-5	IC19	A-4	RV203	C-5
D7	A-2	IC20	A-3	RV304	C-4
D8	A-5	IC21	A-7	RV305	D-5
D9	A-2	IC22	B-7		
D14	B-6	IC23	B-1	S1	A-1
D15	B-1	IC43	D-8		
D16	B-7	IC44	C-5	TP1	C-8
D17	A-7	IC45	C-6	TP2	A-6
D301	E-3	IC46	D-6	TP3	B-2
D304	C-6	IC47	D-5	TP4	A-3
		IC48	D-2	TP5	B-5
		IC50	C-4	TP6	A-6
E1	E-8	IC51	D-8	TP7	A-8
E2	E-2	IC101	E-8	TP10	C-1
E3	A-1	IC102	E-8	TP11	D-7
E4	A-8	IC103	E-7	TP201	D-8
		IC104	E-5	TP202	D-7
		IC105	E-2	TP301	E-6
IC1	C-3	IC106	D-6	TP302	E-5
IC2	C-2			TP303	E-4
IC3	D-1			TP304	E-4
IC4	C-1	Q1	D-1	TP305	D-3
IC5	B-2	Q2	C-1	TP306	D-3
IC6	A-2	Q301	E-6	TP307	D-4
IC7	B-4	Q302	E-6	TP308	D-5
IC8	B-5	Q303	E-5		
IC9	D-2	Q304	E-3		
IC10	E-1	Q305	D-4		
IC11	B-3	Q501	B-4		
IC12	B-6				

DT-15 (1-622-558-13, 14)

CN611	D-1	IC7	D-1	RV2	A-2
CN612	D-2	IC8	D-2		
		IC9	D-2	T1	A-1
D1	A-1	IC10	D-2		
D2	A-2			TP8	A-1
D3	A-2	Q1	A-1	TP10	A-1
D4	B-2	Q2	A-1		
D5	B-2	Q6	D-1		
D7	D-1	Q7	D-1		
D8	D-1	Q8	D-1		
D9	D-2	Q9	C-1		
D11	A-2	Q10	C-1		
D12	D-1	Q11	C-1		
D15	D-2	Q12	D-2		
		Q13	D-2		
E1	A-1	Q14	D-2		
		Q15	C-2		
F1	B-1	Q16	C-2		
		Q17	C-2		

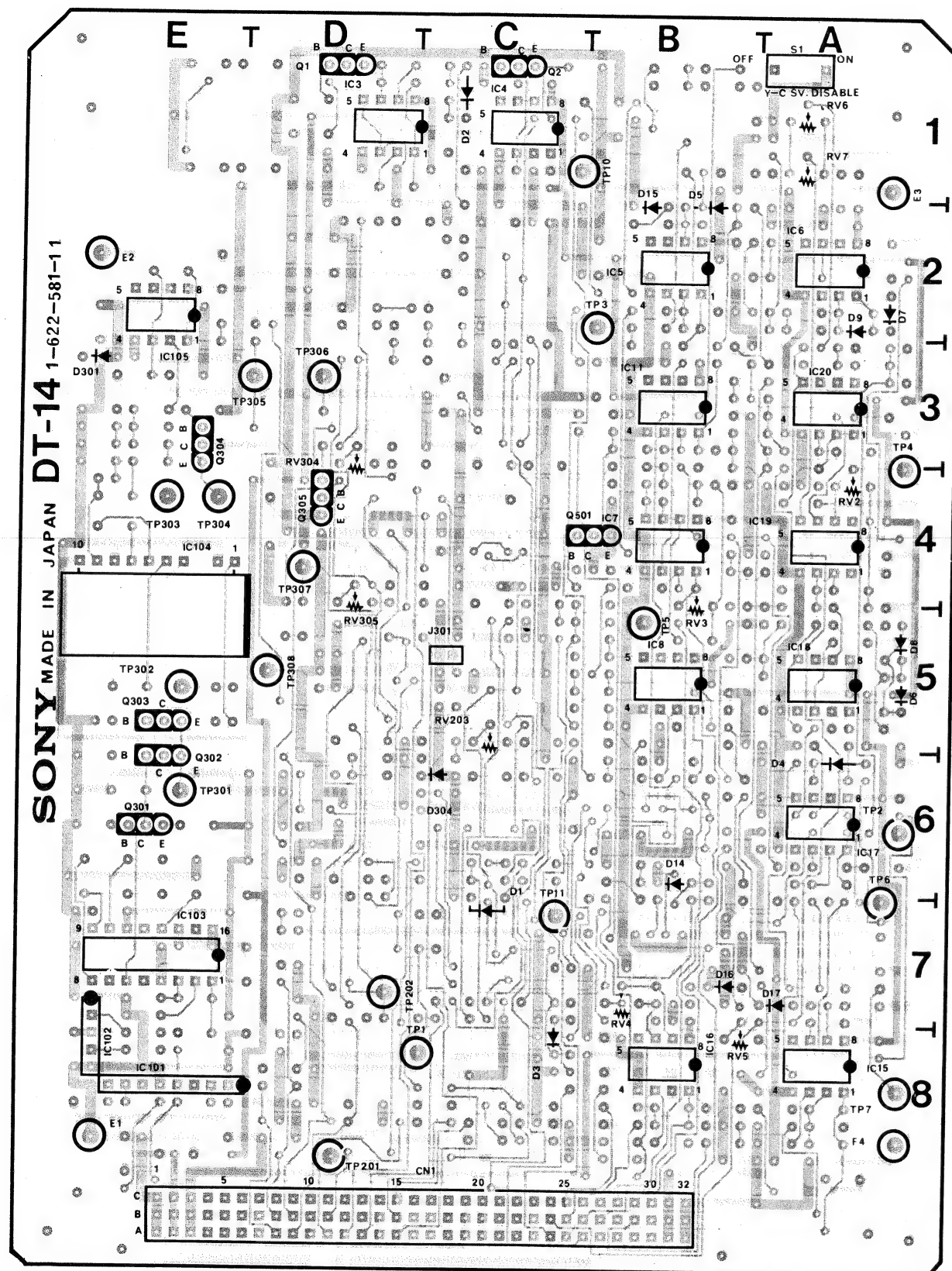
DT-14; DYNAMIC TRACKING
DUS-282; STRAIN GAGE BUFFER
DT-15; DYNAMIC TRACKING

UC; S/N 14657 and higher
J; S/N 11949 and higher

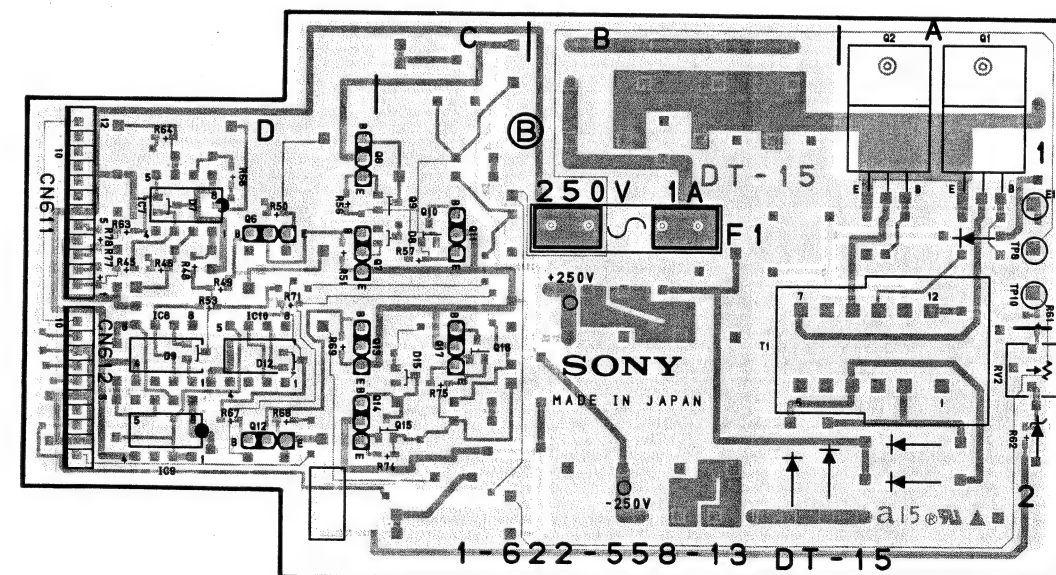
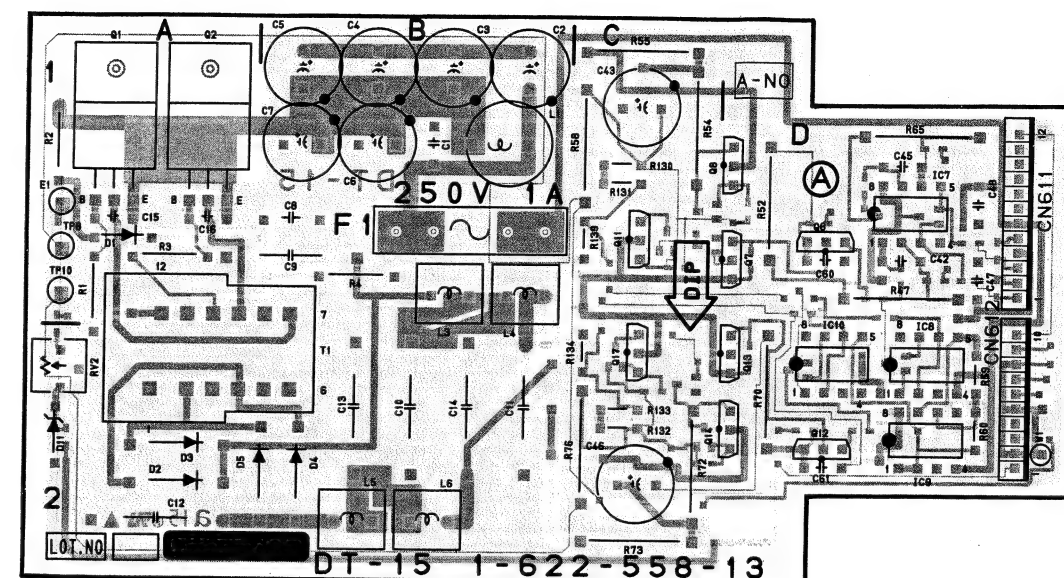


DT-14 -COMPONENT SIDE-
1-622-581-11
BVW-65 BVW-96
BVW-75
BVW-95

SONY MADE IN JAPAN **DT-14** 1-622-581-11



17-173 (b)



17-174 (b)

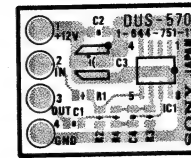
SY-61/61A/61B/61C (1-622-577-14)

REF. NO.	TYPE	PIN NO.	
		+5V	GND
IC 1	SN74LS244N	20	10
IC 2	SN74LS245N	20	10
IC 3	SN74LS244N	20	10
IC 4	MBM2212-25P	18	8
IC 5	SRM2016C10	24	12
IC 6	MBM27C256-25	28	14
IC 7	TMP284C011AF	27.51.90	28.50.77.100
IC 8	TC74HC04P	14	7
IC 9	M54529AP	1.14	7
IC 10	TC74HC11P	14	7
IC 11	TC74HC138P	16	8
IC 12	TC74HC138P	16	8
IC 13	TC74HC14P	14	7
IC 14	TC4050BP	1	8
IC 15	TC4053BPHB	16	7.8
IC 16	TC74HC595P	16	8
IC 17	TC74HC597P	16	8
IC 18	NJM78L05A	*	3
IC 19	MB88303	22	11
IC 20	AM26LS30PC	1	4.5.8
IC 21	TC74HC157P	16	8
IC 22	TC74HC157P	16	8
IC 23	SRM2016C10	24	12
IC 24	TC74HC04P	14	7
IC 25	NJM2903D	8	4
IC 26	MC34051P	16	8
IC 27	TMP284C011AF	27.51.90	28.50.77.100
IC 28	TC74HC245P	20	10
IC 29	TC74HC245P	20	10
IC 30	LH0082AD	24	5
IC 31	M54529AP	1.14	7
IC 32	M54529AP	1.14	7
IC 33	TC4030BP	14	7
IC 34	TC74HC08P	14	7
IC 35	SN74LS697N	20	10
IC 36	SN74LS697N	20	10
IC 37	M54529AP	1.14	7
IC 38	CXD1095Q	26.58	10.25.42.57
IC 39	MBM27C512-25	28	14
IC 40	CXK5864PN-12L	28	14
IC 41	LH0084A	9	31
IC 42	TC74HC32P	14	7
IC 43	TC74HC32P	14	7
IC 44	TC74HC00P	14	7
IC 45	M51958BL	1	3
IC 46	TC74HC08P	14	7
IC 47	MC14538BCP	16	8
IC 48	μPD4069UBP	14	7
IC 49	MC74HC58N	14	7
IC 50	TC74HC32P	14	7
IC 51	TC74HC04P	14	7
IC 52	TC74HC139P	14	7
IC 53	TC74HC02P	14	7

* REFER TO SCHEMATIC

SY-61/61A/61B/61C (1-622-577-14)

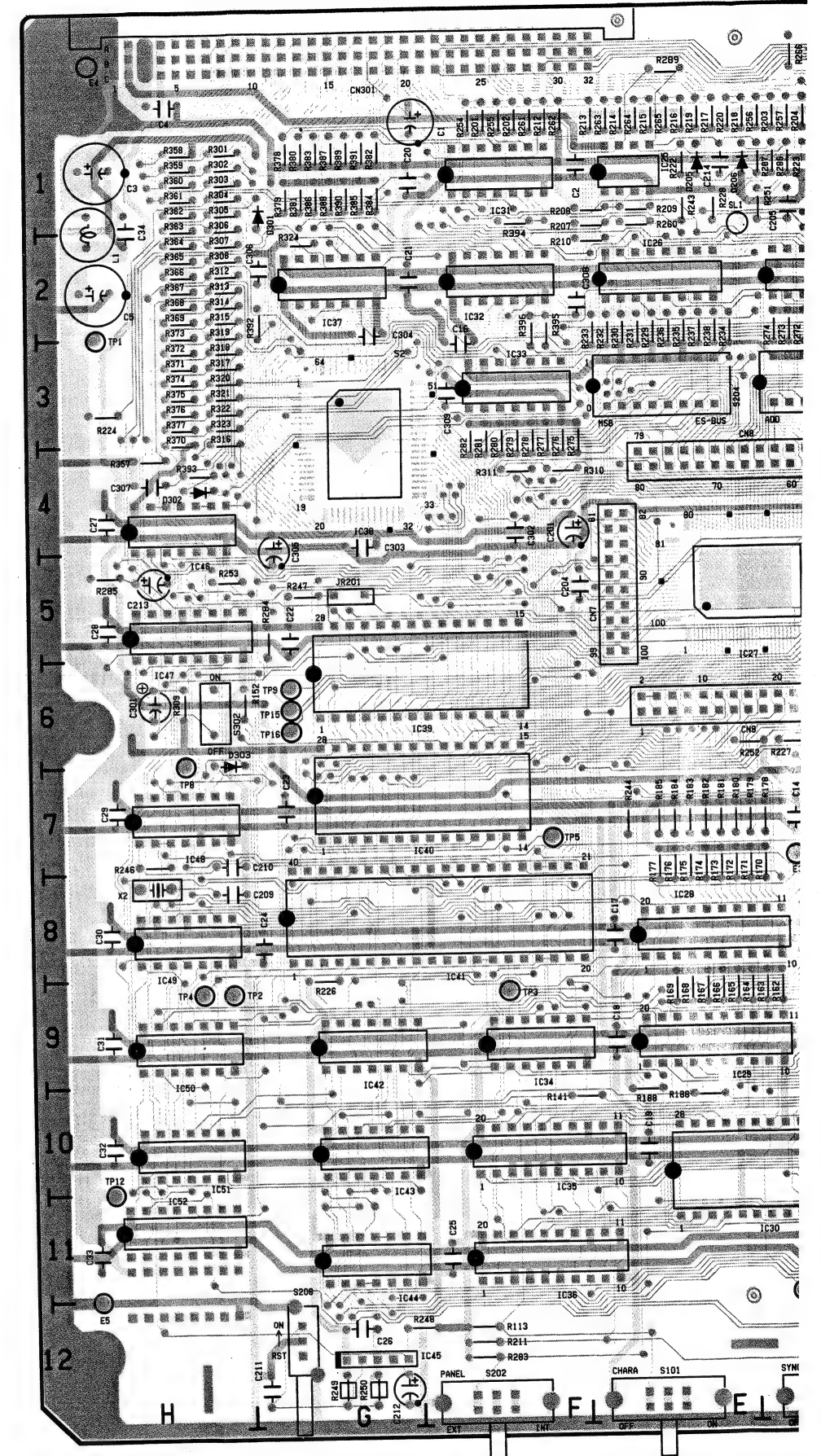
CN3	C-10	IC28	E-8
CN4	B-9	IC29	E-9
CN5	B-2	IC30	D-10
CN6	A-10	IC31	F-1
CN7	E-5	IC32	F-2
CN8	D-4	IC33	F-3
CN9	D-6	IC34	F-9
CN10	D-5	IC35	F-10
CN301	G-1	IC36	F-11
CN302	B-1	IC37	G-2
		IC38	G-4
CV101	C-7	IC39	F-6
CV102	C-7	IC40	F-7
		IC41	F-8
		IC42	G-9
D101	C-12	IC43	G-10
D102	D-6	IC44	G-11
D103	D-6	IC45	G-12
D201	C-1	IC46	H-4
D202	C-1	IC47	H-5
D203	D-1	IC48	H-7
D204	D-1	IC49	H-8
D205	E-1	IC50	H-9
D206	E-1	IC51	H-10
D301	G-1	IC52	H-11
D302	H-4	IC53	C-3
E1	A-1	S101	E-12
E2	A-12	S102	C-12
E3	D-7	S103	B-12
E4	H-1	S105	B-12
E5	H-12	S106	A-11
		S201	D-12
IC1	A-1	S202	F-12
IC2	A-2	S203	D-3
IC3	A-3	S204	E-3
IC4	A-4	S206	G-12
IC5	A-5	S302	H-6
IC6	A-7		
IC7	B-3	TP1	H-2
IC8	B-1	TP2	H-9
IC9	B-2	TP3	F-9
IC10	B-3	TP4	H-9
IC11	B-4	TP5	F-7
IC12	B-5	TP8	H-7
IC13	C-1	TP9	G-6
IC14	C-2	TP10	D-11
IC15	B-8	TP11	D-11
IC16	C-4	TP12	H-10
IC17	C-5	TP13	C-11
IC18	C-6	TP14	C-11
IC19	C-7	TP15	G-6
IC20	D-2	TP16	G-6
IC21	D-7	TP17	A-12
IC22	D-8	TP18	C-12
IC23	D-8		
IC24	C-11		
IC25	E-1	X1	D-12
IC26	E-2	X2	H-8
IC27	D-5		

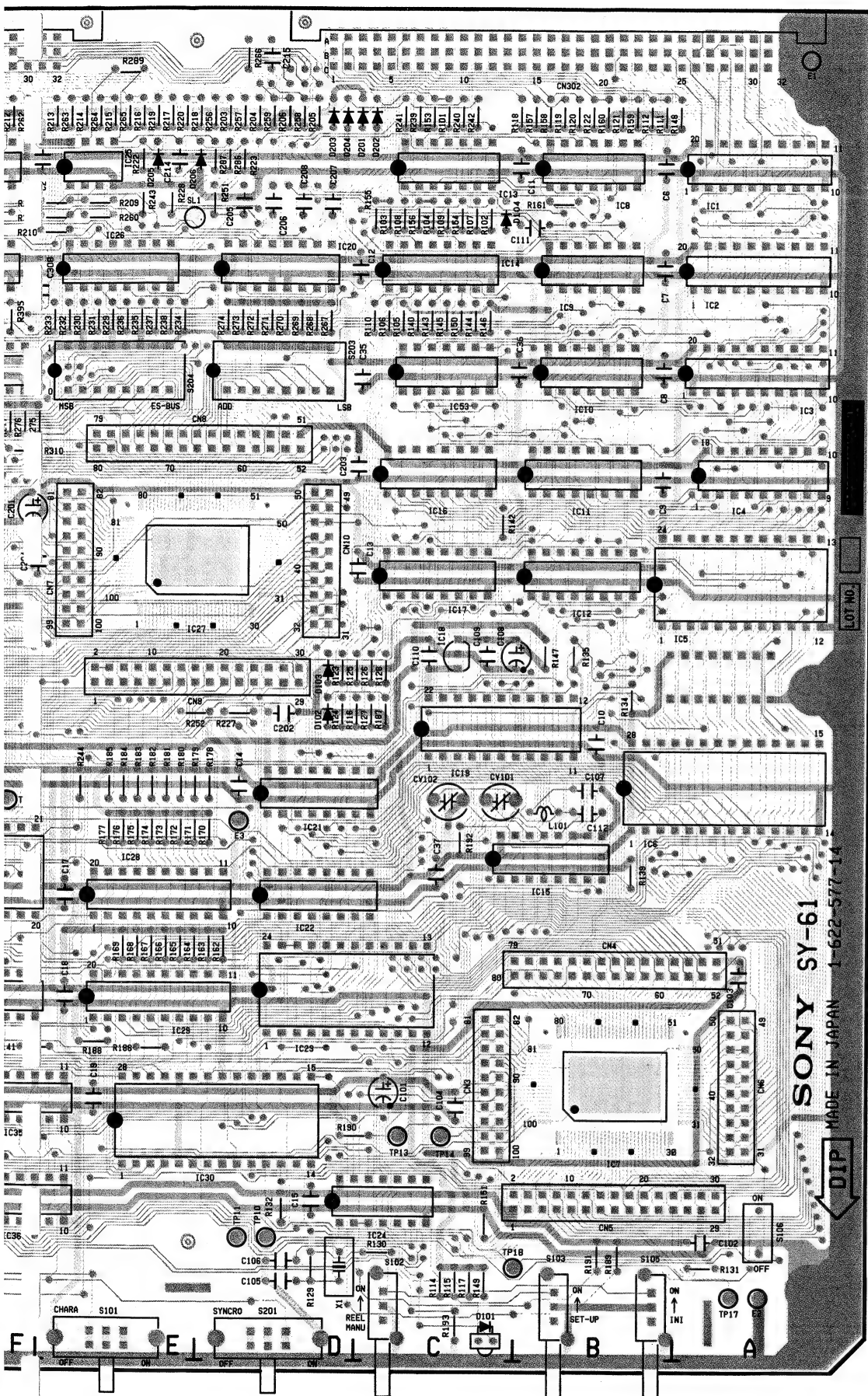
SY-61/61A/61B/61C;
SYSTEM CONTROL
DUS-570;
FAN MOTOR ERROR DETECTORUC; S/N 18395 and higher
J; S/N 14008 and higher

DUS-570—COMPONENT SIDE—

1-644-751-11
BVW-60 BVW-70
BVW-65 BVW-75
BVW-95 BVW-96

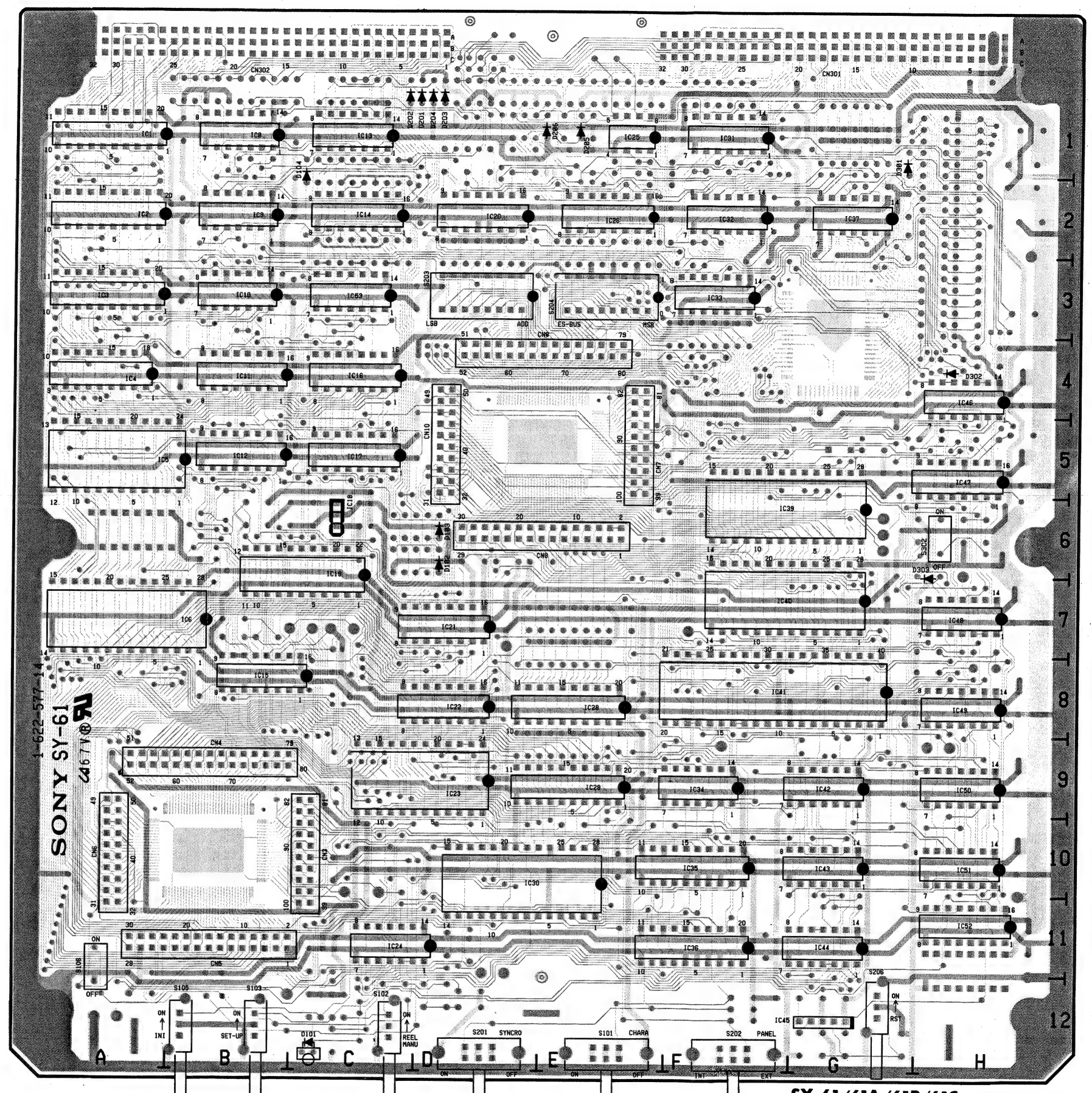
	SY-61	SY-61A	SY-61B	SY-61C
BVW-60		○		
BVW-65		○		
BVW-70	○			
BVW-75	○			
BVW-95			○	
BVW-96				○





SY-61/61A/61B/61C -COMPONENT SIDE-
1-622-577-14
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

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SY-61/61A/61B/61C -SOLDERING SIDE-
1-622-577-14
BVW-60 BVW-75
BVW-65 BVW-95
BVW-70 BVW-96

17-182

SY-64 ; SYSTEM CONTROL

SY-64 (1-622-578-14)

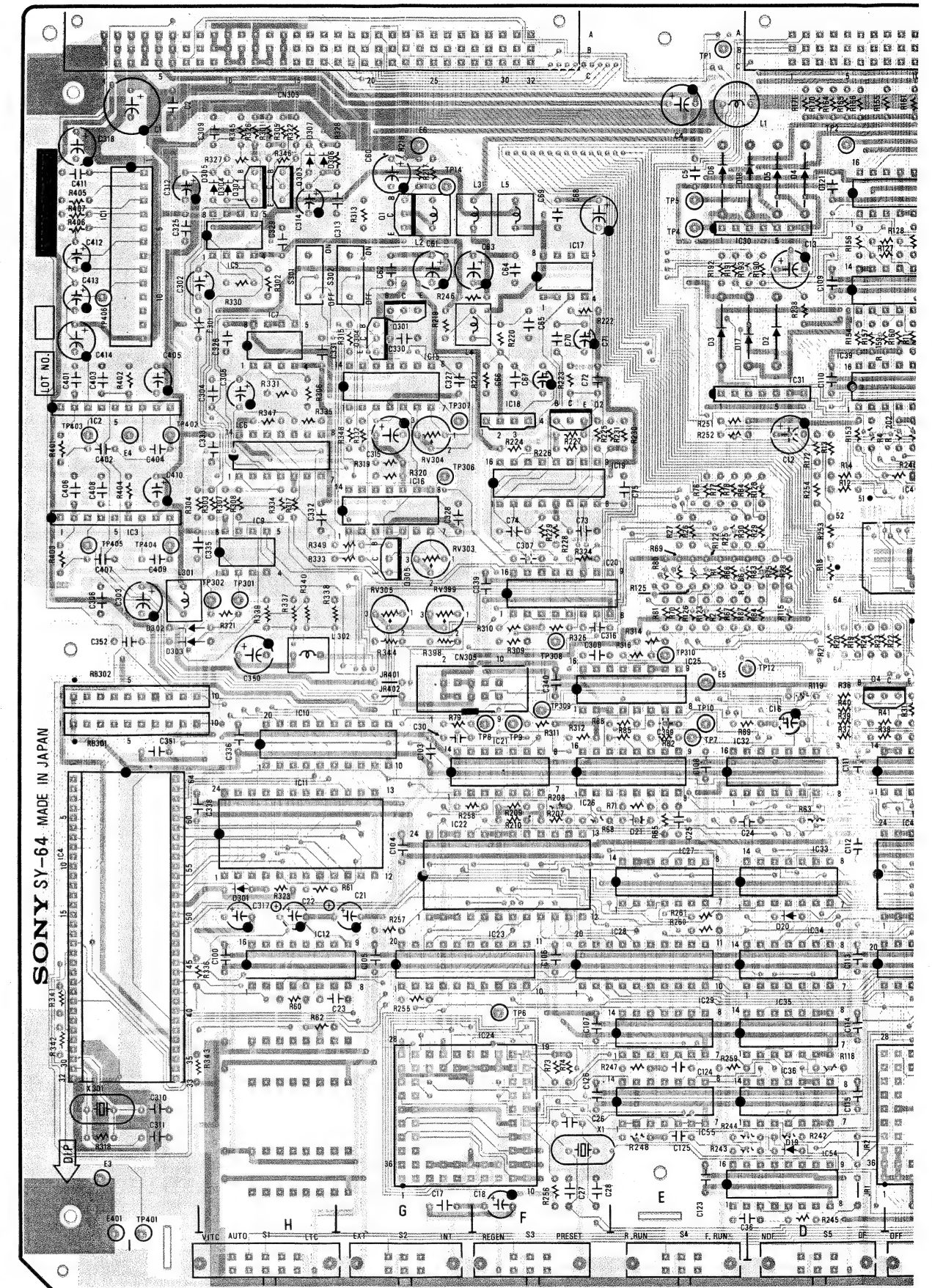
REF.No	TYPE	PIN NO.						
		UNREG +15V	UNREG +14V	+12V	+5V	GND	UNREG GND	-12V
IC 1	BX343			13		7		
IC 2	LA7205				8	5		
IC 3	LA7205				8	5		
IC 4	μ PD78312CW				64	32		
IC 5	TL082CP			8				4
IC 6	TC4016BPHB				14	7		
IC 7	TL082CP			8				4
IC 9	TLC548CP				8	4		
IC 10	SN74HC373P				20	10		
IC 11	SRM2016C10				24	12		
IC 12	MC14046BCP				16	8		11
IC 15	TL084CN			4				11
IC 16	TL084CN			4				
IC 17	TL082CP			8		4		
IC 18	AN608P			2		4		
IC 19	PA0009			4		6		10
IC 20	SN74LS123N				16	8		
IC 21	TC74HC04P				14	7		
IC 22	SRM2016C10				24	12		
IC 23	TC74HC244P				20	10		
IC 24	CX7907A				47.61	40.54		
IC 25	SN74LS123N				16	8		
IC 26	TC4050BP			1		8		
IC 27	TC74HC00P				14	7		
IC 28	TC74HC245P				20	10		
IC 29	MC74HC58N				14	7		
IC 30	TA7267P		7			4		
IC 31	TA7267P		7			4		
IC 32	TC4538BP				16	8		
IC 33	TC74HC08P				14	7		
IC 34	TC74HC32P				14	7		
IC 35	TC4001BP				14	7		
IC 36	μ PD4013BC	1.8			14	7	4.5.12.13	
IC 37	M54532P							
IC 38	TC74HC08P				14	7		
IC 39	TC74HC4050P				1	8		
IC 40	CXD1095A				26.58	10.27.42.57		
IC 41	TC74HC08P				14	7		
IC 42	SRM2016C10				24	12		
IC 43	TC74HC240P				20	10		
IC 44	CX7913A				47.61	40.54		
IC 45	M54523P	9					8	
IC 46	CXD1095A				26.58	10.27.42.57		
IC 47	CXD1095A				26.58	10.27.42.57		
IC 48	TC74HC04P				14	7		
IC 49	SRM2016C10				24	12		
IC 50	TC74HC244P				20	10		
IC 51	CX7912A				47.61	40.54		
IC 52	TC74HC4050P				1	8		
IC 53	TC504013BP				14	7		
IC 54	TC74HC4538P				16	8		
IC 55	TC4071BP				14	7		

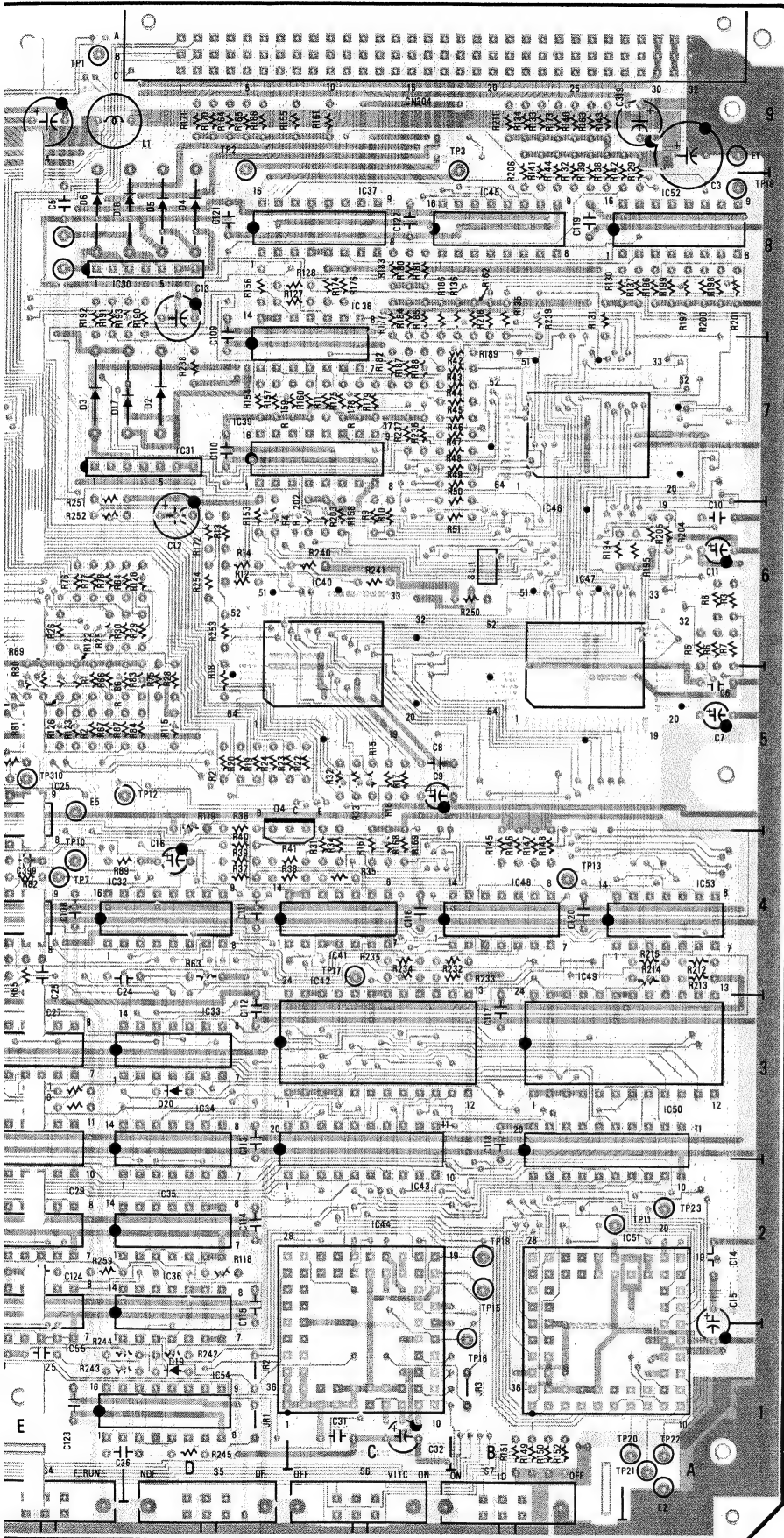
NOTE

MARK	CHANGE INFORMATION	SERIAL NO.
*1	IC6 TC4016BP → TC4016BPHB	UC: S/N 13326 ~ J: S/N 11304 ~

SY-64 (1-622-578-14)

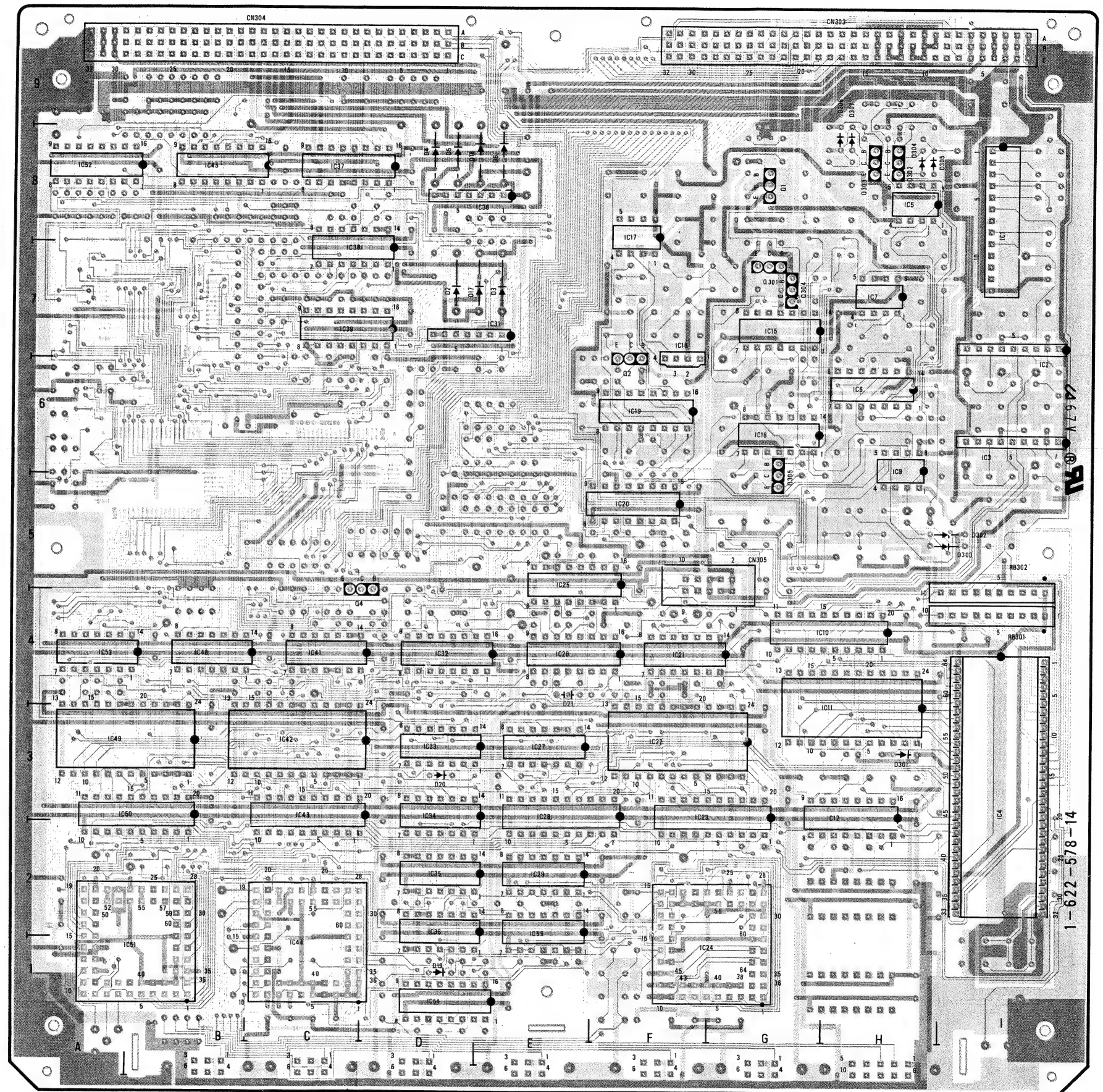
CN303	H-9	IC47	B-6
CN304	C-9	IC48	B-4
CN305	F-5	IC49	B-3
		IC50	B-3
		IC51	B-1
		IC52	A-8
		IC53	A-4
		IC54	D-1
		IC55	E-2
D2	D-7	Q1	G-8
D3	E-7	Q2	F-7
D4	D-8	Q4	C-4
D5	D-8	Q301	G-7
D6	E-8	Q302	H-8
D17	D-7	Q303	H-8
D19	D-1	Q304	G-7
D20	D-3	Q305	G-6
D21	E-4		
D16	H-1	RV303	G-5
D301	H-3	RV304	G-6
D302	I-5	RV305	G-5
D303	I-5	RV399	G-5
D304	H-8		
D305	H-8		
D306	H-8		
D307	H-8		
E1	A-9	S1	H-1
E2	A-1	S2	G-1
E3	I-1	S3	F-1
E4	I-6	S4	E-1
E5	E-5	S5	D-1
E6	G-8	S6	C-1
E401	I-1	S7	B-1
		S301	H-8
		S302	G-8
IC1	I-8	SL1	B-6
IC2	I-7		
IC3	I-6		
IC4	I-3		
IC5	H-8		
IC6	H-6		
IC7	H-7	TP1	E-9
IC9	H-6	TP2	D-9
IC10	H-4	TP3	B-9
IC11	H-4	TP4	E-8
IC12	H-3	TP5	E-8
IC15	G-7	TP6	F-2
IC16	G-6	TP7	E-4
IC17	F-8	TP8	F-4
IC18	F-7	TP9	F-4
IC19	F-6	TP10	E-4
IC20	F-5	TP11	B-2
IC21	F-4	TP12	D-5
IC22	F-3	TP13	B-4
IC23	F-3	TP14	G-8
IC24	F-2	TP15	B-2
IC25	E-5	TP16	B-1
IC26	E-4	TP17	C-4
IC27	E-3	TP18	B-2
IC28	E-3	TP19	A-8
IC29	E-2	TP20	A-1
IC30	D-8	TP21	A-1
IC31	D-7	TP22	A-1
IC32	D-4	TP23	A-2
IC33	D-3	TP301	H-5
IC34	D-3	TP302	H-5
IC35	D-2	TP306	G-6
IC36	D-2	TP307	G-7
IC37	C-8	TP308	F-5
IC38	C-7	TP309	F-4
IC39	C-7	TP310	E-5
IC40	C-6	TP401	I-1
IC41	C-4	TP402	I-6
IC42	C-3	TP403	I-6
IC43	C-3	TP404	I-6
IC44	C-2	TP405	I-6
IC45	B-8	TP406	I-7
IC46	B-7		

X1
X301F-1
I-2



SY-64 - COMPONENT SIDE -
1-622-578-14
BVW-70
BVW-75
BVW-96

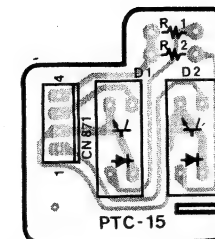
17-189



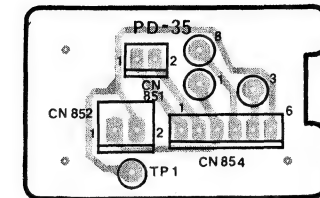
SY-64 - SOLDERING SIDE -
1-622-578-14
BVW-70
BVW-75
BVW-96

17-190

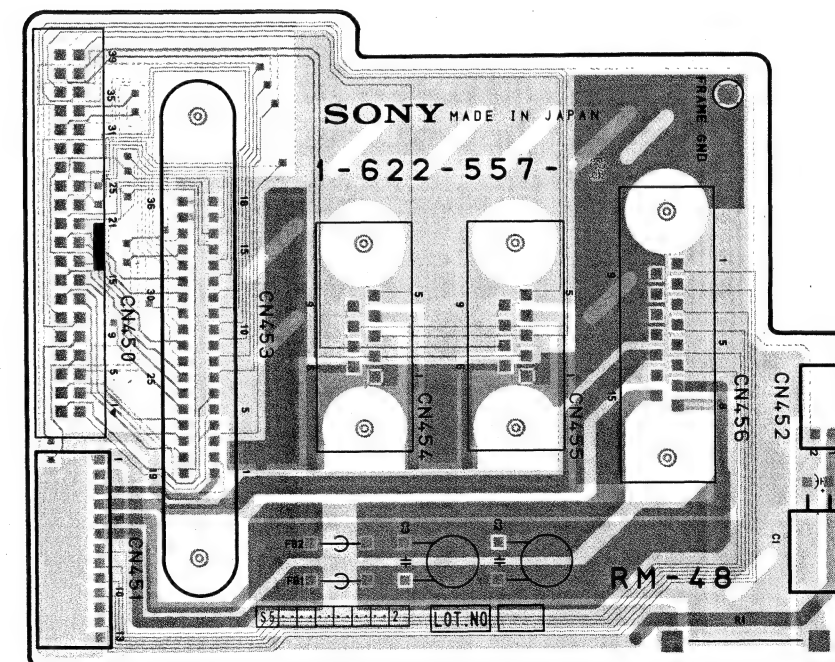
PD-35; PINCH/CLEANING SOLENOID
 PTC-15; THREAD/UNTHREAD END SENSOR
 RM-48; REMOTE CONNECTOR
 CL-14; CASSETTE-UP COMPARTMENT
 CL-24; CASSETTE-UP COMPARTMENT LED
 PC-33; CASSETTE DOWN DETECTOR
 PC-41; CASSETTE IN DETECTOR
 PC-47; LARGE/SMALL CASSETTE DETECTOR
 CCM-2; UP/DOWN MOTOR
 HC-11; HOURS METER



PTC-15 -COMPONENT SIDE-
 1-622-597-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



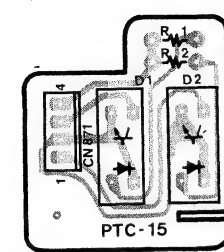
PD-35 -COMPONENT SIDE-
 1-622-596-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



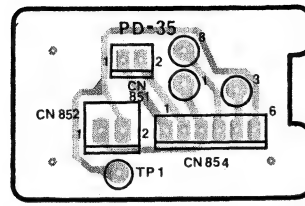
RM-48 -COMPONENT SIDE-
 1-622-557-12, 13
 BVW-60 BVW-70
 BVW-65 BVW-75

PD-35; PINCH/CLEANING SOLENOID
 PTC-15; THREAD/UNTHREAD END SENSOR
 RM-48; REMOTE CONNECTOR
 CL-14; CASSETTE-UP COMPARTMENT
 CL-24; CASSETTE-UP COMPARTMENT LED
 PC-33; CASSETTE DOWN DETECTOR
 PC-41; CASSETTE IN DETECTOR
 PC-47; LARGE/SMALL CASSETTE DETECTOR
 CCM-2; UP/DOWN MOTOR
 HC-11; HOURS METER

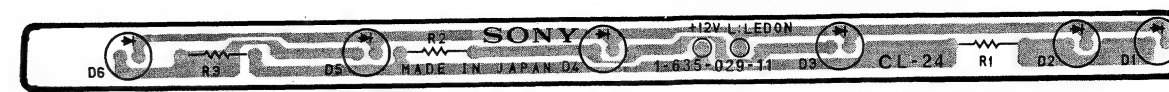
UC; S/N 15552 and higher
 J; S/N 12319 and higher



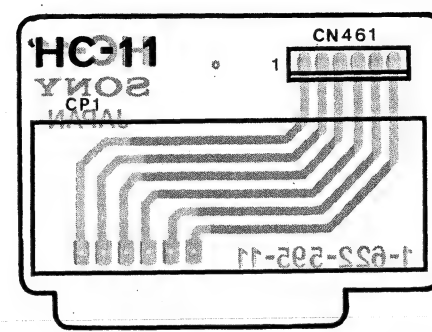
PTC-15 —COMPONENT SIDE—
 1-622-597-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



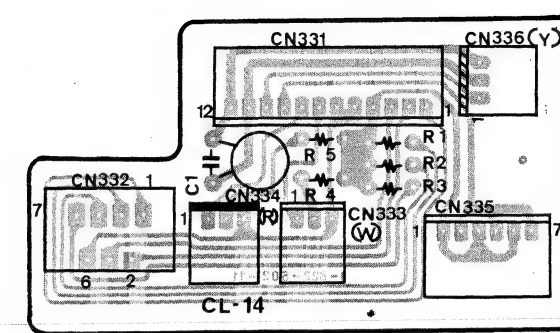
PD-35 —COMPONENT SIDE—
 1-622-596-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



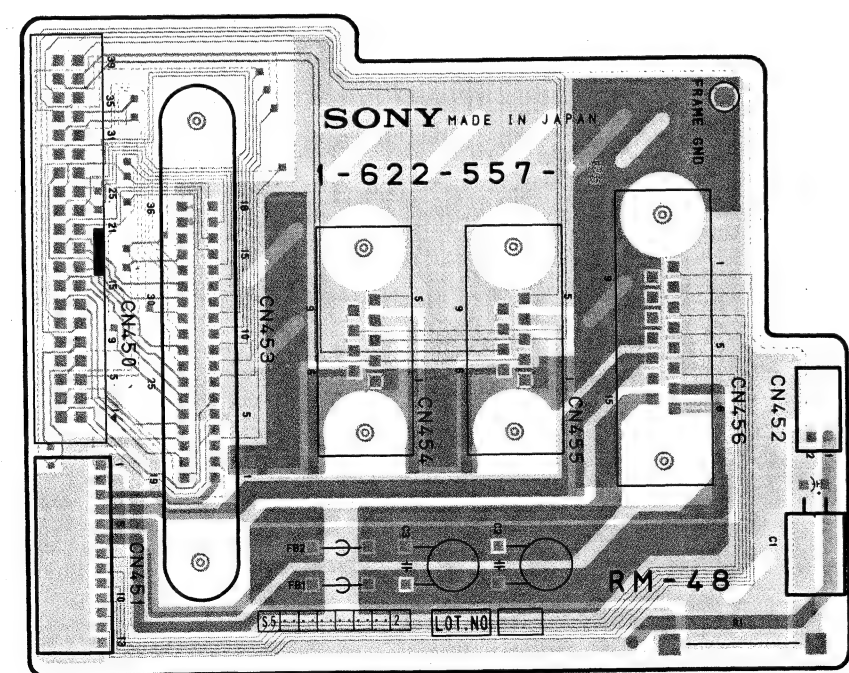
CL-24 —COMPONENT SIDE—
 1-635-029-11
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96



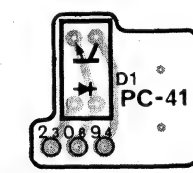
HC-11 —COMPONENT SIDE—
 1-622-595-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



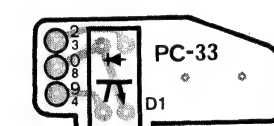
CL-14 —COMPONENT SIDE—
 1-622-602-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



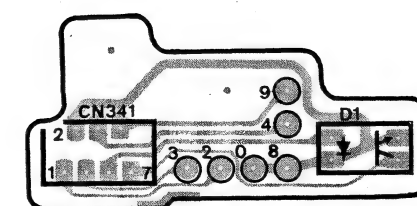
RM-48 —COMPONENT SIDE—
 1-622-557-12, 13
 BVW-60 BVW-70
 BVW-65 BVW-75



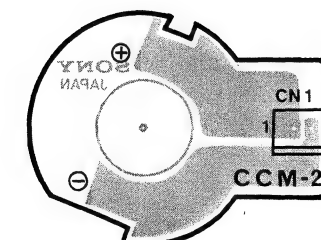
PC-41 —COMPONENT SIDE—
 1-623-267-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



PC-33 —COMPONENT SIDE—
 1-622-604-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



PC-47 —COMPONENT SIDE—
 1-628-786-11
 BVW-60 BVW-75
 BVW-65
 BVW-70



CCM-2 —COMPONENT SIDE—
 1-623-198-11
 BVW-60 BVW-75
 BVW-65
 BVW-70

KY-96/96A (1-622-553-12)

REF. NO	TYPE	PIN NO.		
		+9V	+5V	GND
IC 1	M5236L	*	*	2
IC 2	NJM78L05A	1		3
IC 3	MB88201H-539N		16	8
IC 4	M50747H-601SP			27
IC 5	M54516P	*	*	7
IC 6	M54516P	*	*	7
IC 7	M54516P	*	*	7
IC 8	NJM78L05A	*	*	3

* REFER TO SCHEMATIC

KY-96/96A (1-622-553-12)

CN1	G-1	D48	F-1	Q34	E-3	S1	E-3
CN2	J-1	D49	G-2	Q35	H-3	S2	H-3
CN3	I-1	D50	G-2	Q36	H-3	S3	G-3
CN4	C-2	D51	A-2	Q37	G-2	S4	F-3
CN5	H-2	D52	H-2	Q38	G-3	S5	G-3
CN6	F-2	D53	I-2	Q39	F-3	S6	I-3
CN7	G-1	D55	H-2	Q40	F-3	S7	E-2
		D56	I-2	Q41	G-2	S8	G-2
D1	F-1	D57	K-1	Q42	G-3	S9	G-2
D2	D-1	D58	J-1	Q43	H-2	S10	A-2
D3	D-1	D59	J-1	Q44	I-3	S11	A-1
D4	I-1			Q45	E-2	S12	B-1
D5	I-1	E1	G-2	Q46	E-2	S13	B-1
D6	I-1			Q47	G-1	S14	A-1
D7	I-1			Q48	G-2	S15	A-1
D8	I-1	IC1	H-1	Q49	G-2	S16	F-2
D9	I-1	IC3	H-2	Q50	G-2	S17	A-3
D10	I-1	IC4	E-2	Q51	A-1	S18	A-3
D11	E-3	IC5	I-2	Q52	A-1	S19	B-3
D12	H-3	IC6	H-3	Q53	B-1	S20	H-1
D13	G-3	IC7	B-2	Q54	B-1	S21	C-3
D14	F-3	IC8	H-2	Q55	B-1	S22	D-3
D15	G-3			Q56	B-1	S23	C-2
D16	I-3	Q1	H-1	Q57	B-1	S24	D-2
D17	J-1	Q2	C-1	Q58	A-1	S25	B-2
D18	F-2	Q3	D-1	Q59	A-1	S26	K-1
D19	G-1	Q4	I-1	Q60	A-1	S27	F-1
D20	G-2	Q5	I-1	Q61	F-1	S28	E-1
D21	A-2	Q6	I-1	Q62	F-2		
D22	A-1	Q7	I-1	Q63	A-2	TP1	B-2
D23	B-1	Q8	I-1	Q64	A-3	TP2	D-3
D24	B-1	Q9	I-1	Q65	B-3	TP3	I-2
D25	B-1	Q10	I-1	Q66	A-3	TP4	B-2
D26	A-1	Q12	A-2	Q67	B-3	TP5	D-1
D27	F-2	Q13	A-2	Q68	B-3	TP6	D-1
D28	A-2	Q14	A-2	Q69	A-2		
D29	A-3	Q15	A-2	Q70	A-2	X1	E-1
D30	B-3	Q16	A-2	Q71	C-3	X2	F-2
D31	C-2	Q17	A-2	Q72	C-3		
D32	C-2	Q18	B-2	Q73	D-3		
D33	J-1	Q19	B-2	Q74	D-3		
D34	J-1	Q20	B-2	Q75	C-1		
D35	H-1	Q21	B-2	Q76	C-1		
D36	C-3	Q22	B-2	Q77	D-2		
D37	C-3	Q23	B-2	Q78	D-2		
D38	C-2	Q24	C-2	Q79	B-2		
D39	C-2	Q25	B-2	Q80	B-2		
D40	B-2	Q26	B-2	Q81	E-2		
D41	C-2	Q27	B-2	Q82	F-2		
D42	K-1	Q28	B-2	Q83	G-2		
D43	E-1	Q29	B-2	Q84	G-3		
D44	E-1	Q30	B-2				
D45	F-1	Q31	B-2				
D46	F-1	Q32	C-2				
D47	G-1	Q33	E-2				

KY-96/96A; KEYBOARD

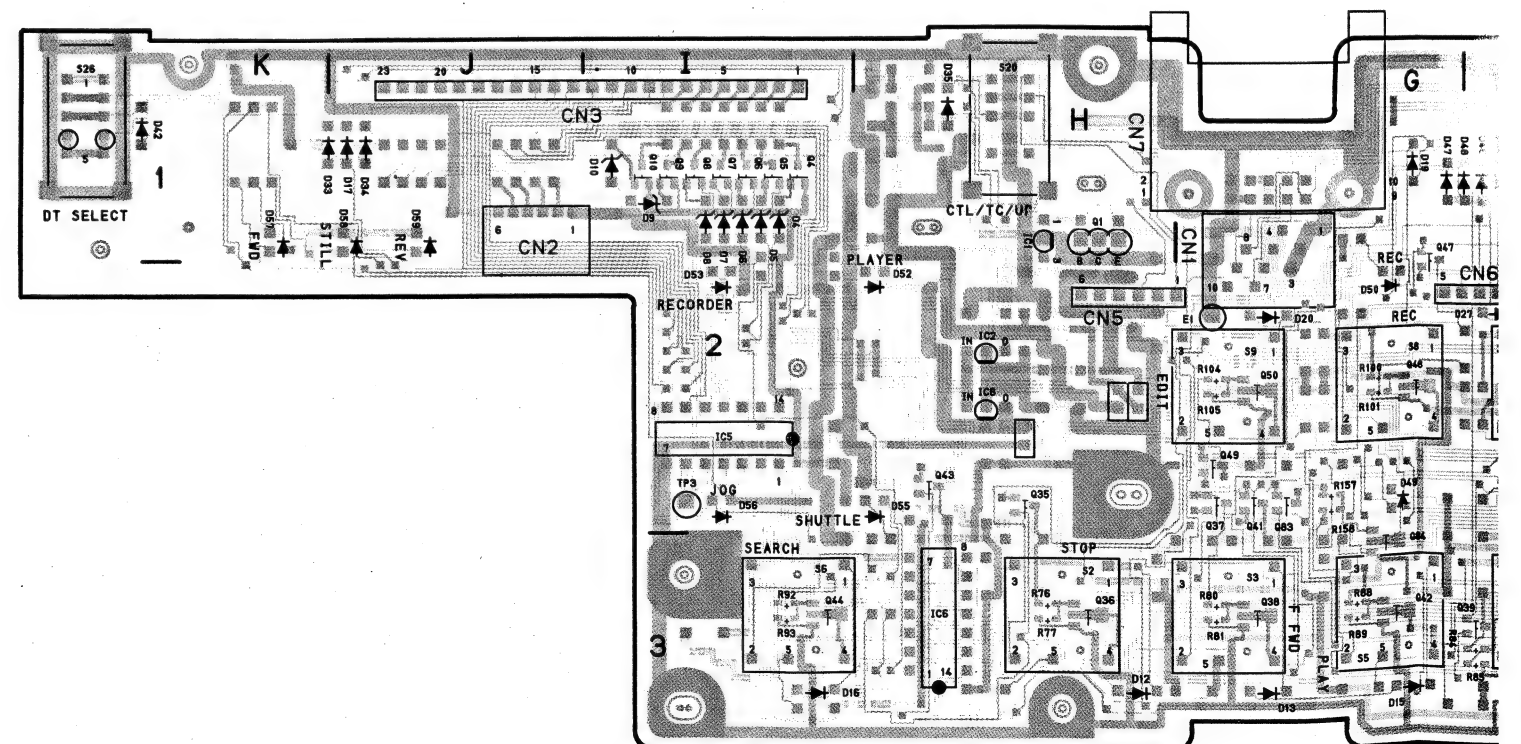
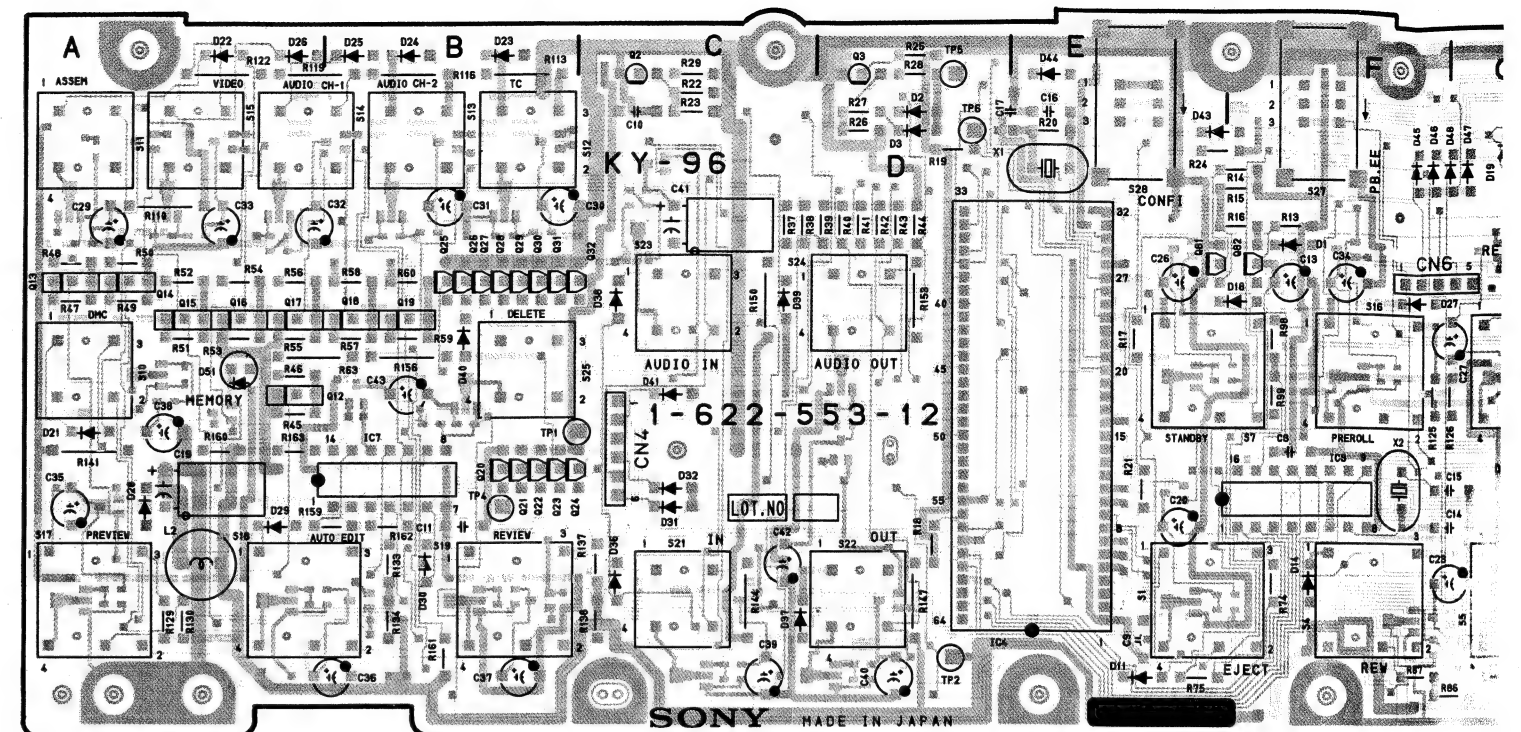
KY-107; KEYBOARD

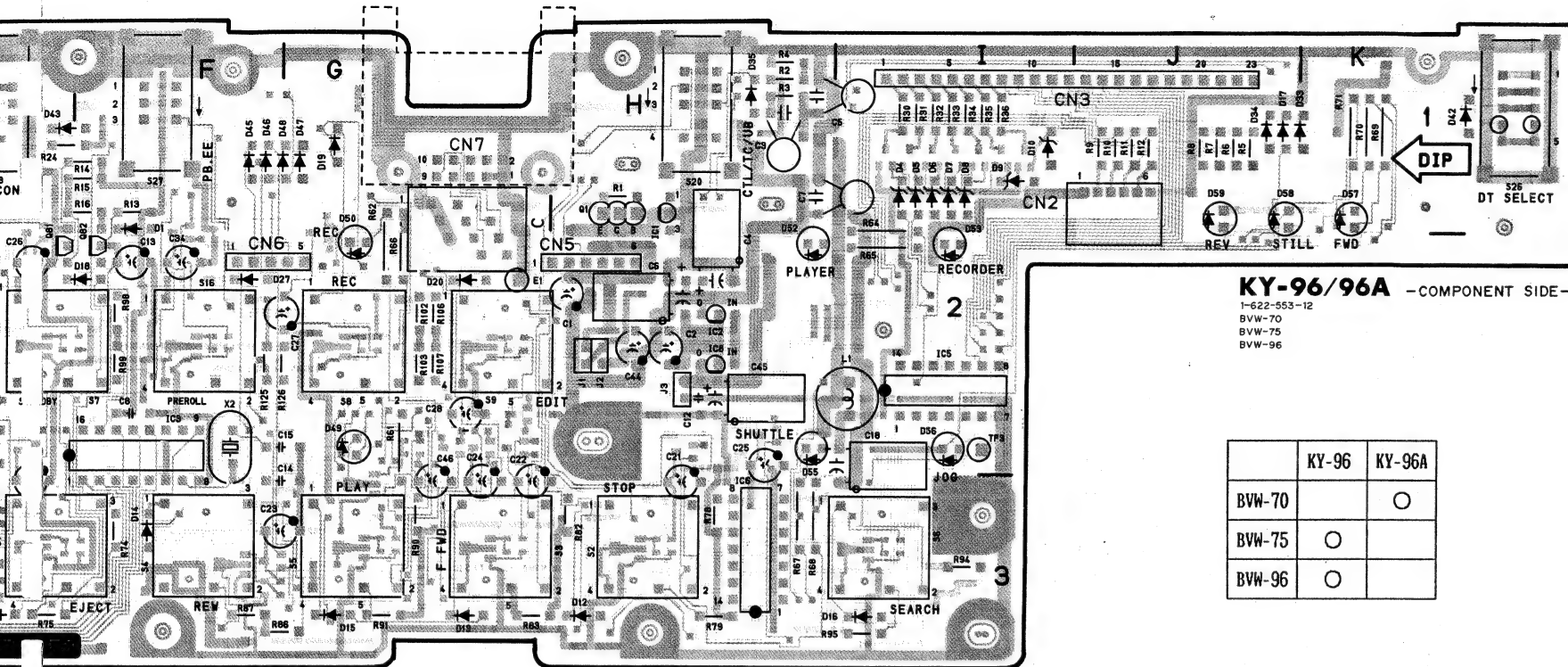
KY-108; KEYBOARD

PTC-32; SEARCH DIAL

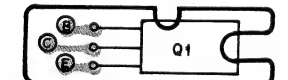
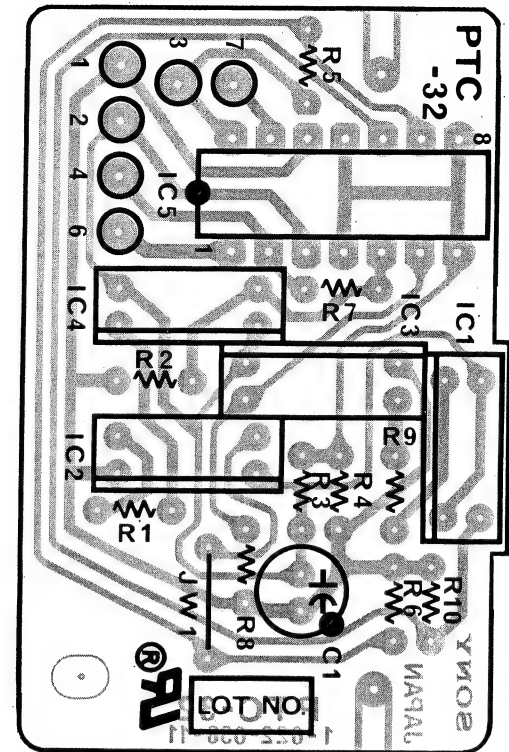
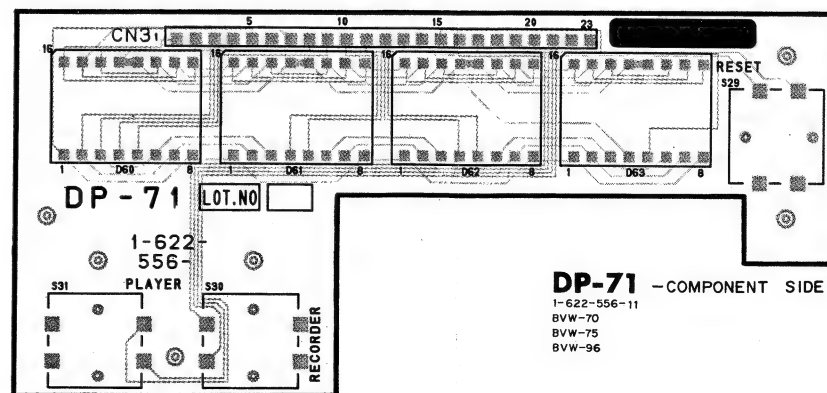
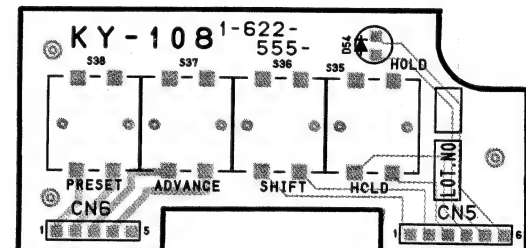
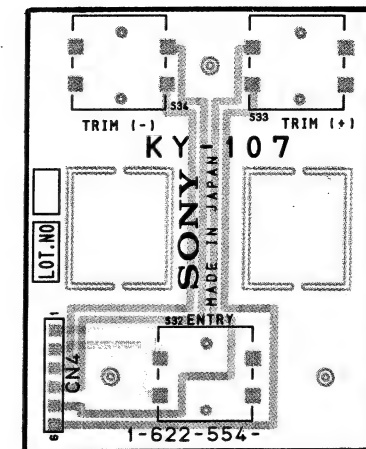
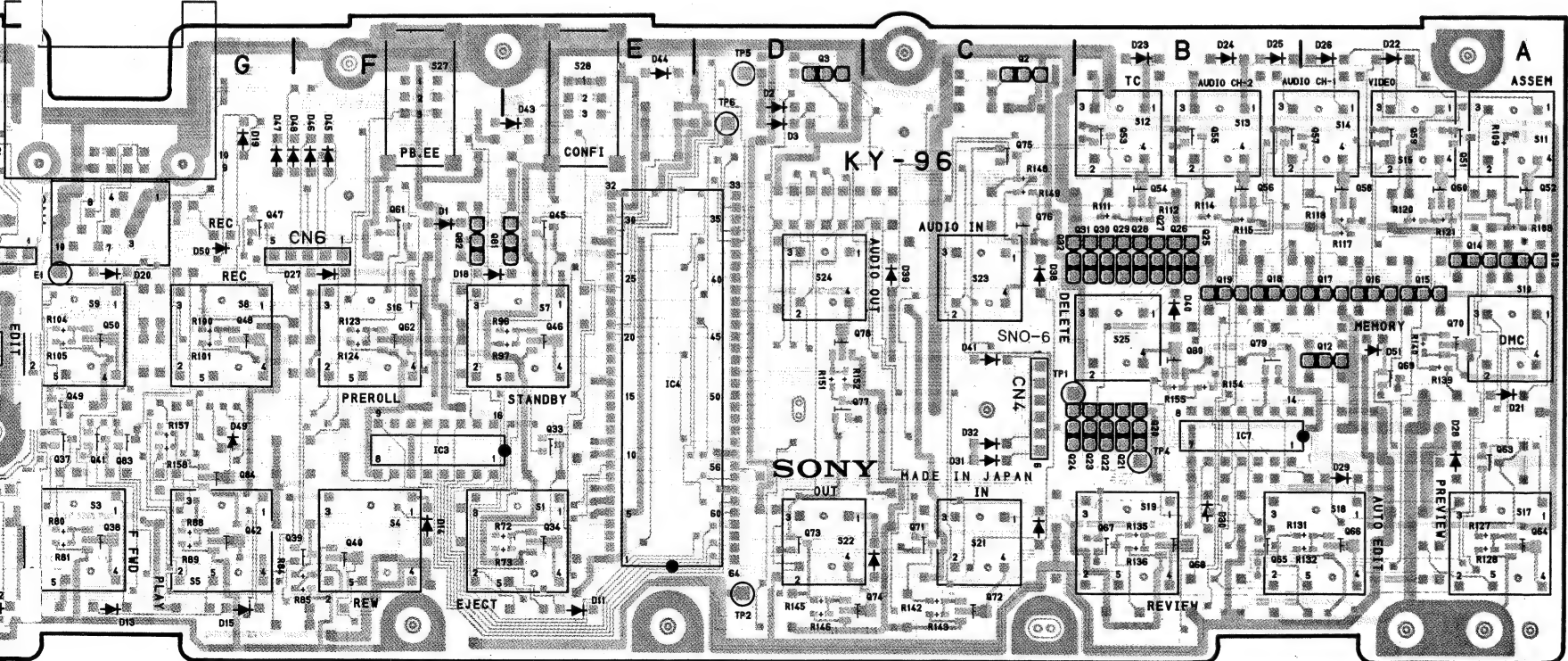
DP-71; TIME COUNTER DISPLAY

PT-9; POWER TRANSISTOR





	KY-96	KY-96A
BVW-70		○
BVW-75	○	
BVW-96	○	



TC-40; LTC REC/PB AMPLIFIER, ERASE DRIVER

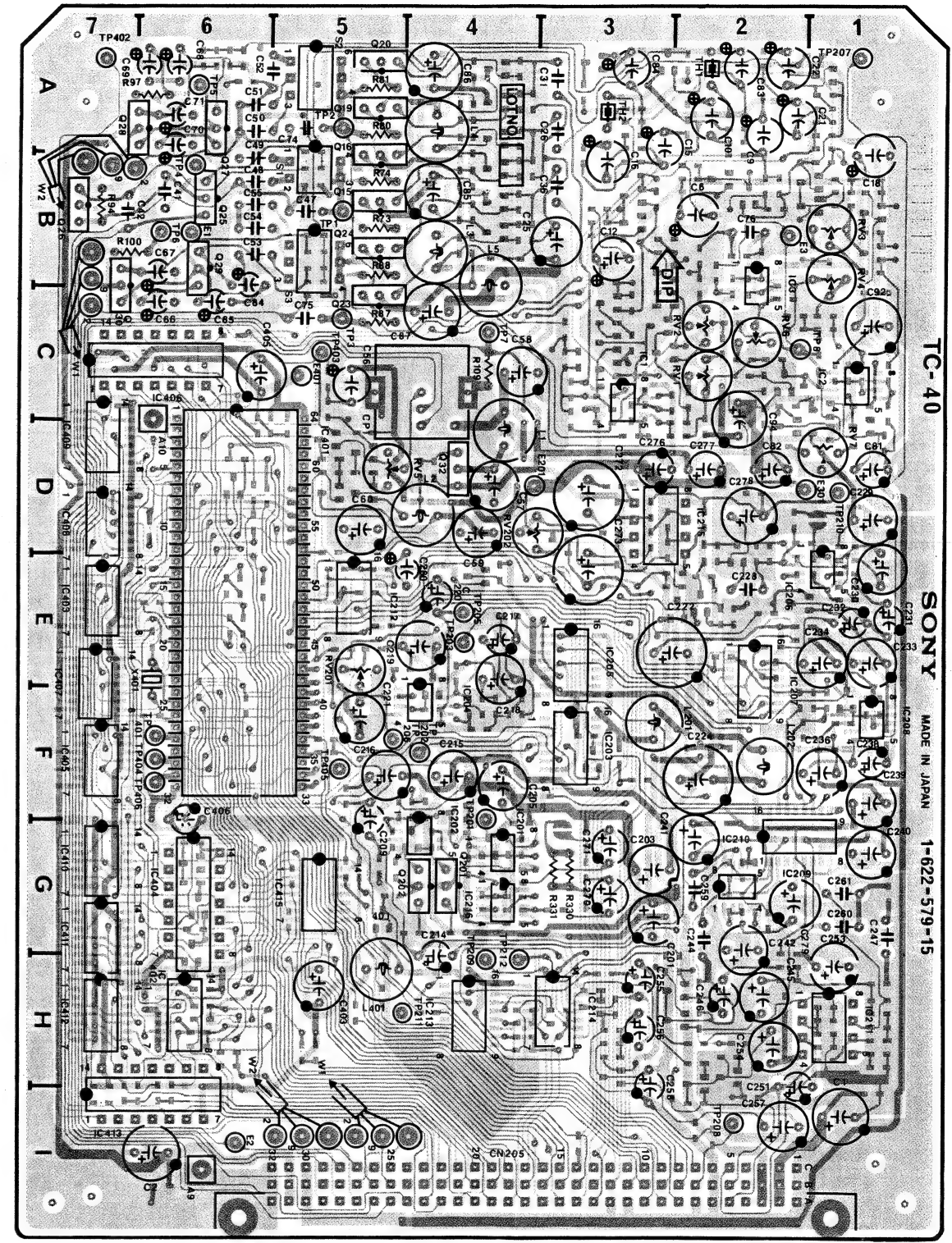
TC-40 (1-622-579-15)

REF. No.	TYPE	PIN NO.				
		+12V	+5V	GND	-5V	-12V
IC 1	NJM5532M	8				4
IC 2	NJM5532M	8				4
IC 3	NJM5532M	8				4
IC 201	NJM4558M	8				4
IC 202	NJM4558M	8				4
IC 203	TC4053BFHB		16	8	7	
IC 204	NJM2903M		8	4	7	
IC 205	TC4052BF		16	8	7	
IC 206	NJM082M	8		4	7	
IC 207	TC4052BF		16	8	7	
IC 208	NJM4558M		8		4	
IC 209	TC4053BFHB		16	8	7	
IC 210	NJM4558M		8		4	
IC 211	NJM4562D-D		8		4	
IC 212	TC4538BF		16	8		
IC 213	TC4028BF		16	8		
IC 214	TC4075BF		16	8		
IC 215	NJM4556D	8				4
IC 216	NJM4558M	8				4
IC 401	MB88525-190M		64	32		
IC 402	HD14584BFP		14	7		
IC 403	TC4069UBF		14	7		
IC 404	SN74LS06N		14	7		
IC 405	TC4069UBF		14	7		
IC 406	M54529AP		14	7		
IC 407	TC4011BF		*	7		
IC 408	TC4011BF		*	7		
IC 409	TC4011BF		*	7		
IC 410	TC504013BF		14	7		
IC 411	TC504013BF		14	7		
IC 412	TC504013BF		14	7		
IC 413	SN74LS06N		14	7		
IC 415	TC4069UBF		14	7		

* REFER TO SCHEMATIC

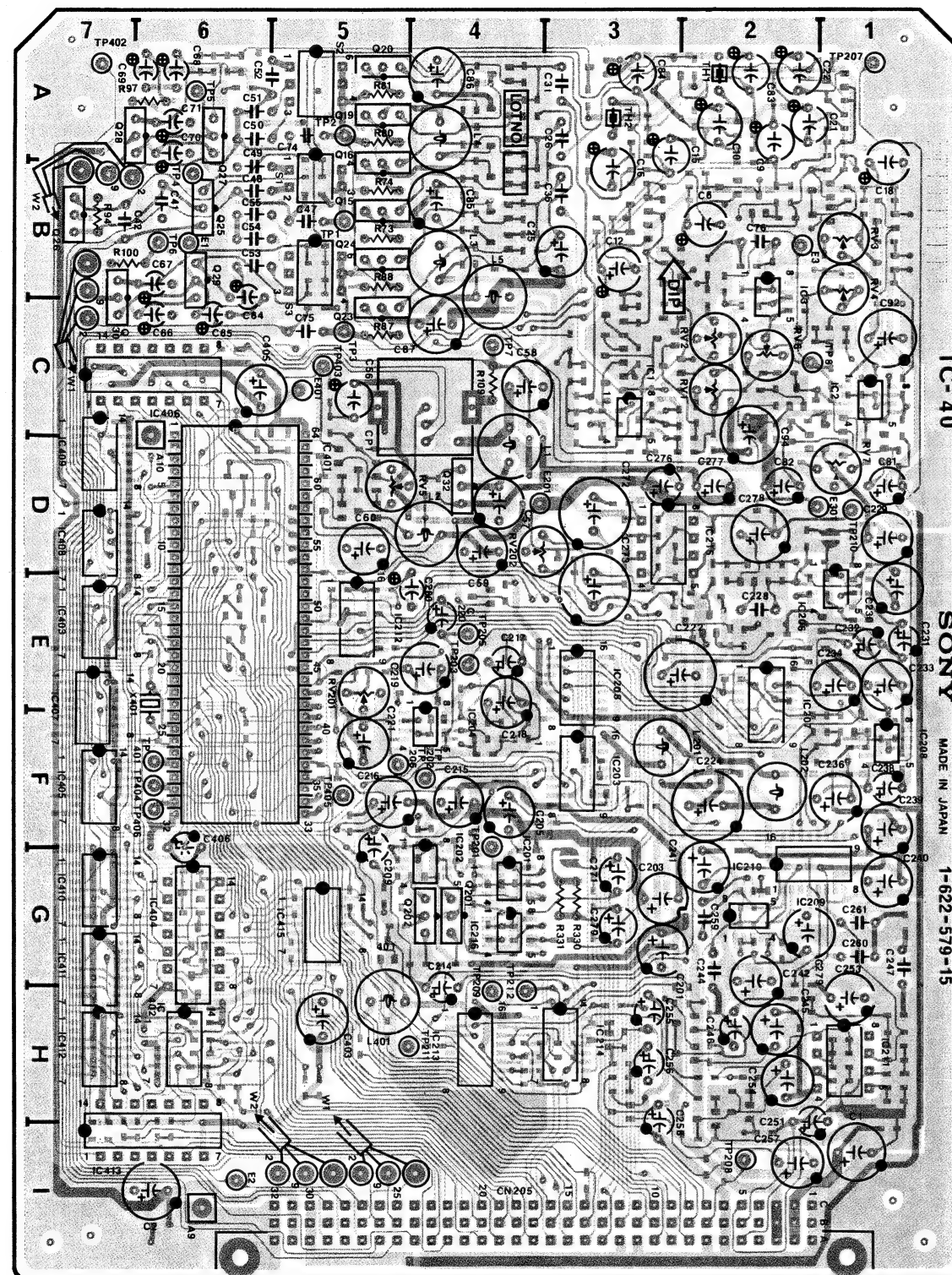
TC-40 (1-622-579-15)

CN205	I-4	IC207	E-2	Q9	A-1	Q202	G-3	TH1	A-2
		IC208	E-1	Q10	B-1	Q203	H-3	TH2	A-3
CP1	C-4	IC209	F-2	Q11	B-1	Q204	H-3		
		IC210	G-2	Q12	A-2	Q205	G-5		
D1	B-3	IC211	H-1	Q13	B-4	Q206	F-3	TP1	B-5
D2	B-2	IC212	E-5	Q14	B-4	Q207	H-2	TP2	A-5
D3	B-1	IC213	H-4	Q15	B-5	Q208	H-2	TP3	C-5
D4	D-1	IC214	H-3	Q16	A-5	Q209	H-2	TP4	B-6
D5	D-2	IC215	D-3	Q17	A-4	Q210	H-2	TP5	A-6
D201	G-4	IC216	G-4	Q18	A-4	Q211	E-2	TP6	B-6
D203	F-4	IC401	D-5	Q19	A-5	Q212	C-3	TP7	C-4
D204	G-4	IC402	H-6	Q20	A-5	Q213	C-2	TP8	C-2
D206	E-4	IC403	E-7	Q21	B-4	Q214	E-4	TP201	F-4
D207	E-1	IC404	G-6	Q22	B-4	Q215	E-2	TP202	F-4
D401	D-6	IC405	F-7	Q23	B-5	Q401	G-5	TP203	E-4
D403	G-5	IC406	C-6	Q24	B-5	Q402	G-5	TP205	D-4
		IC407	E-7	Q25	B-6			TP206	F-5
E1	B-6	IC408	D-7	Q26	B-7	RV1	C-2	TP207	A-1
E2	I-6	IC409	D-7	Q27	A-6	RV2	C-2	TP208	I-2
E3	B-2	IC410	G-7	Q28	A-7	RV3	A-1	TP209	H-4
E201	D-3	IC411	G-7	Q29	B-6	RV4	B-1	TP210	D-1
E301	C-3	IC412	H-7	Q30	B-7	RV5	D-5	TP211	H-4
E401	C-5	IC413	H-6	Q31	D-5	RV6	C-2	TP212	H-4
		IC415	G-5	Q32	C-4	RV7	D-1	TP401	F-6
				Q33	D-5	RV201	E-5	TP402	A-7
IC1	C-3			Q34	D-5	RV202	D-4	TP403	C-5
IC2	B-1	Q1	B-3	Q35	D-1			TP404	F-6
IC3	B-2	Q2	B-3	Q36	D-1	S1	A-5	TP405	F-5
IC201	G-4	Q3	C-3	Q37	C-2	S2	A-5	TP406	F-6
IC202	G-4	Q4	A-3	Q38	C-5	S3	B-5		
IC203	F-3	Q5	B-3	Q39	C-2			X401	E-6
IC204	F-4	Q6	C-3	Q40	C-3	SL201	G-3		
IC205	E-3	Q7	C-3	Q201	G-3	SL202	D-1		
IC206	C-2	Q8	A-3						

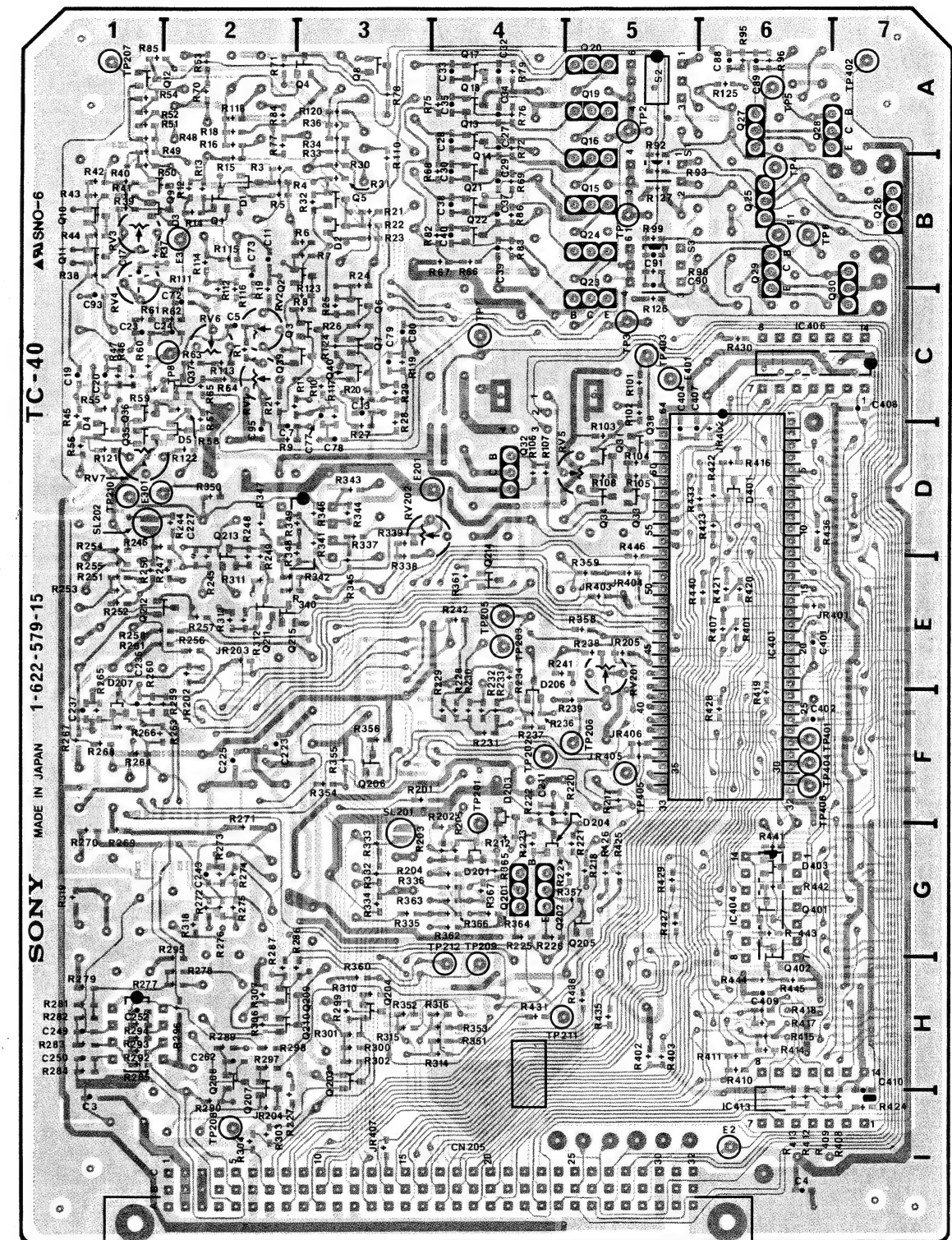


TC-40 -COMPONENT SIDE-
1-622-579-15
BVW-70
BVW-75
BVW-96

TC-40; LTC REC/PB AMPLIFIER, ERASE DRIVER

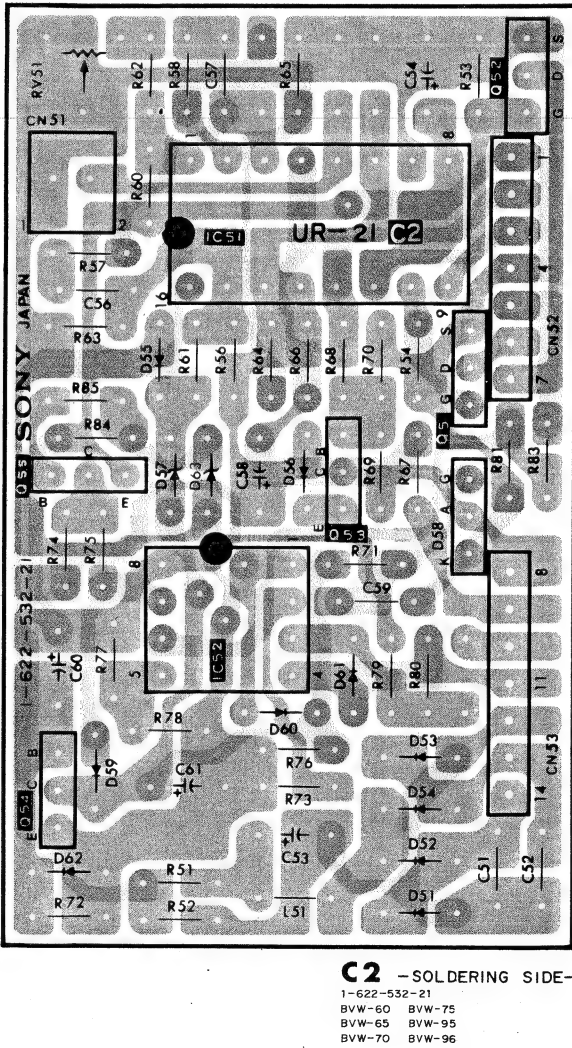
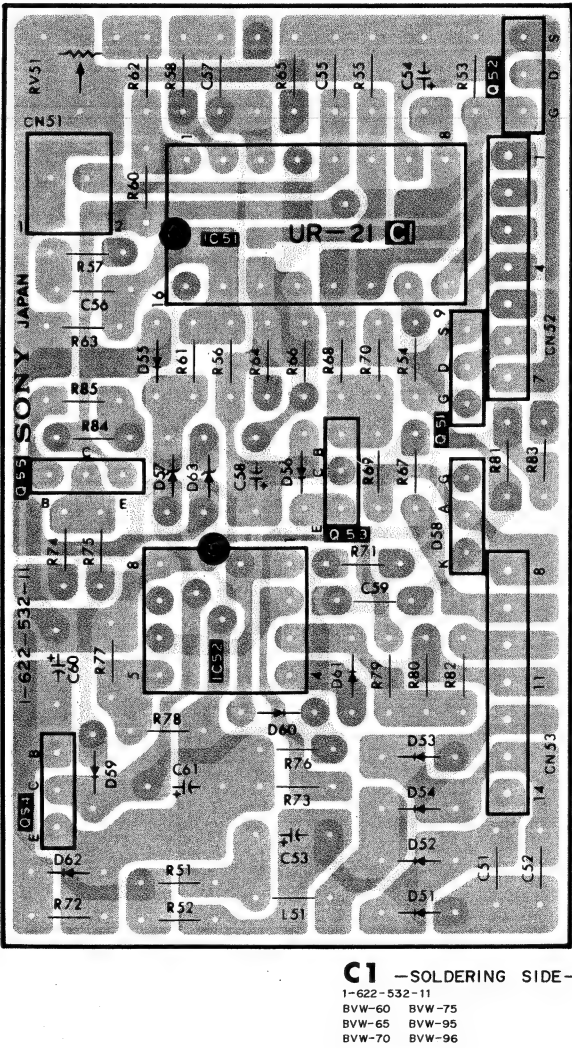
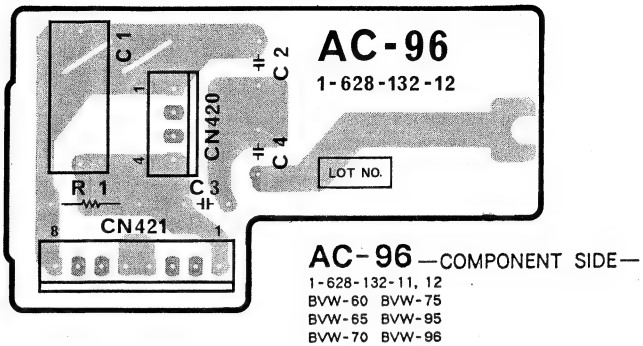


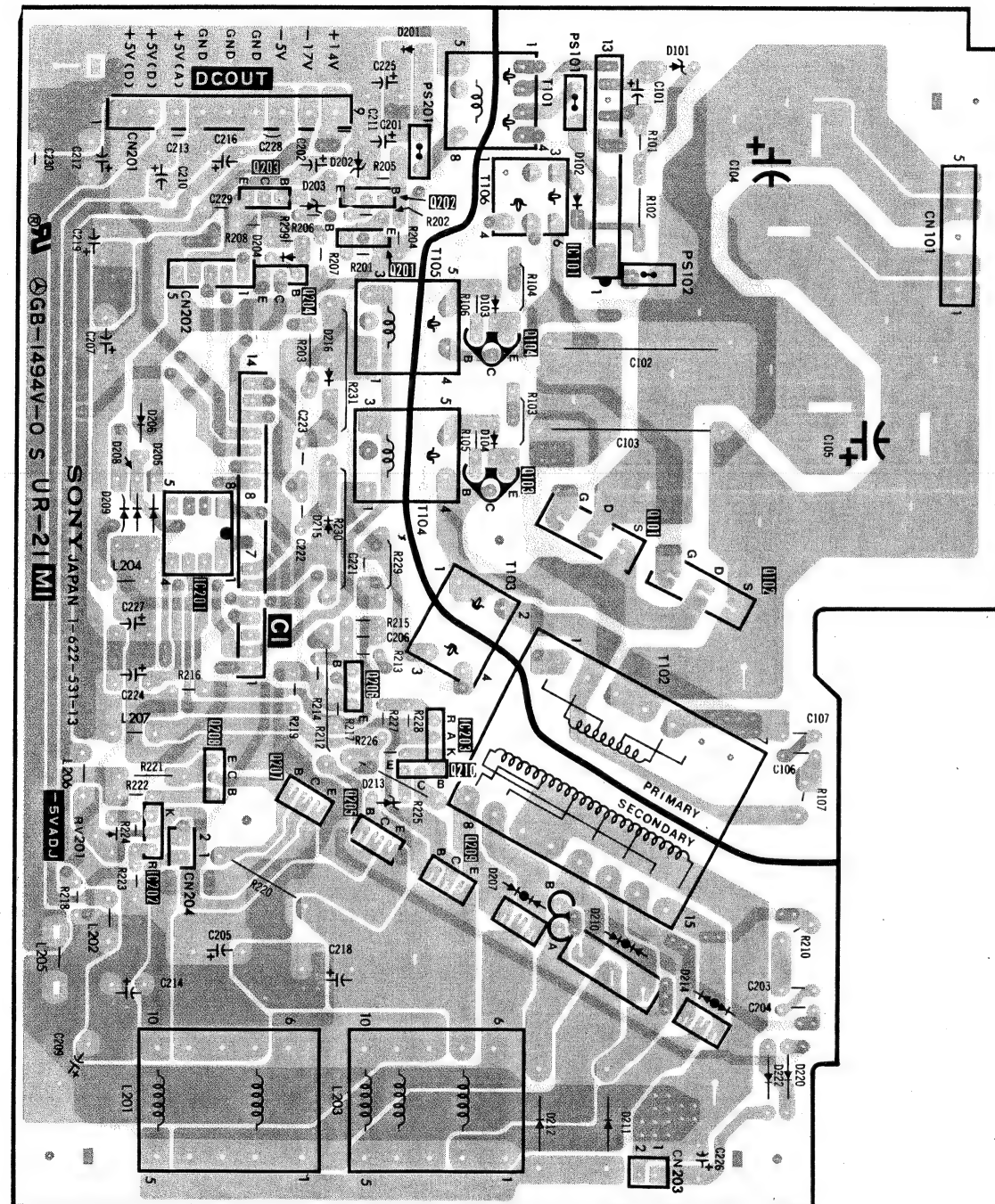
TC-40 -COMPONENT SIDE-
1-622-579-15
BVW-70
BVW-75
BVW-96



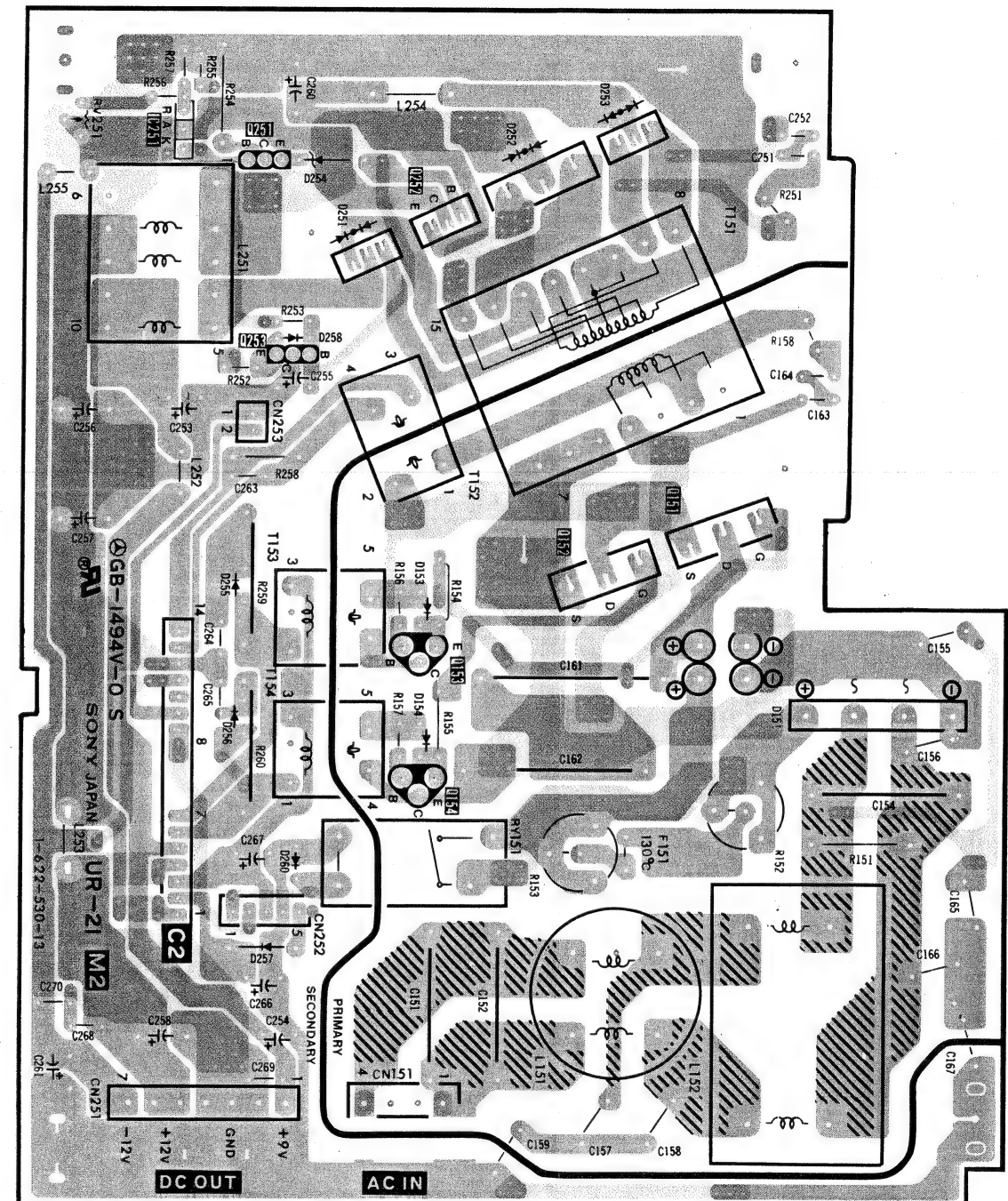
TC-40 -SOLDERING SIDE-
1-622-579-15
BVW-70
BVW-75
BVW-96

AC-96; RELAY BOARD OF AC INLET
C1; SWITCHING REGULATOR
C2; SWITCHING REGULATOR
M1; SWITCHING REGULATOR
M2; SWITCHING REGULATOR



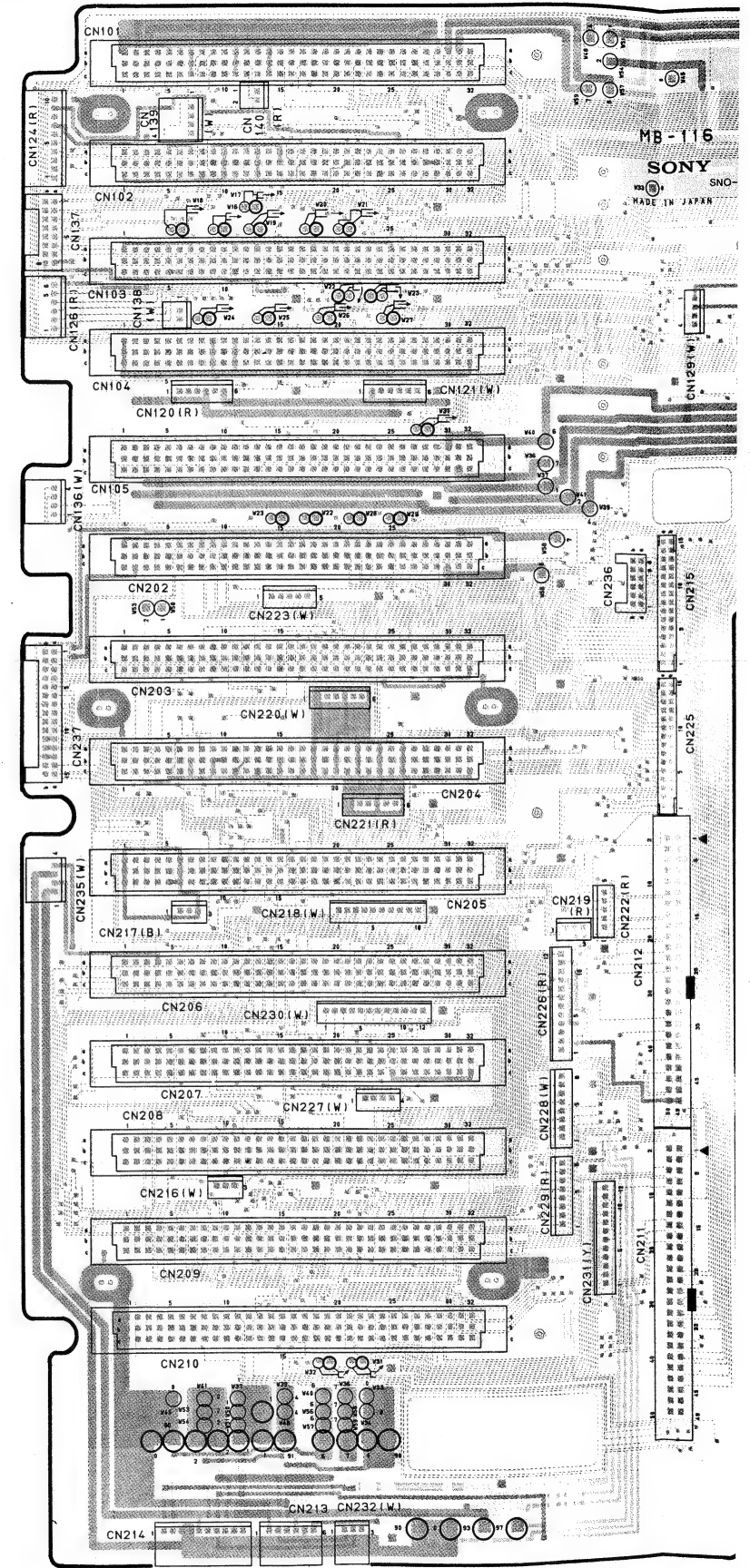


M1 - SOLDERING SIDE-
 1-622-531-13
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96

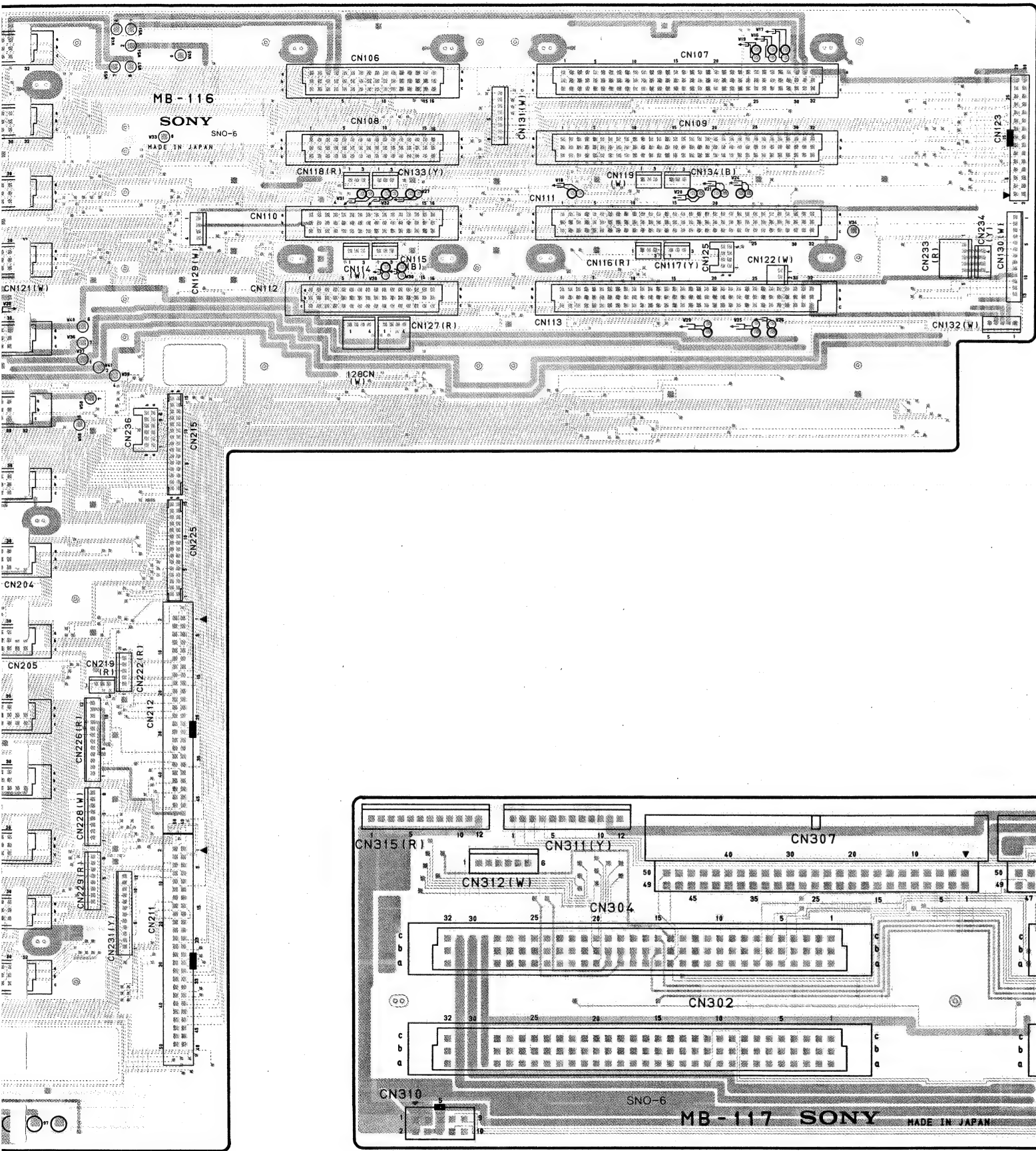


M2 - SOLDERING SIDE-
 1-622-530-13
 BVW-60 BVW-75
 BVW-65 BVW-95
 BVW-70 BVW-96

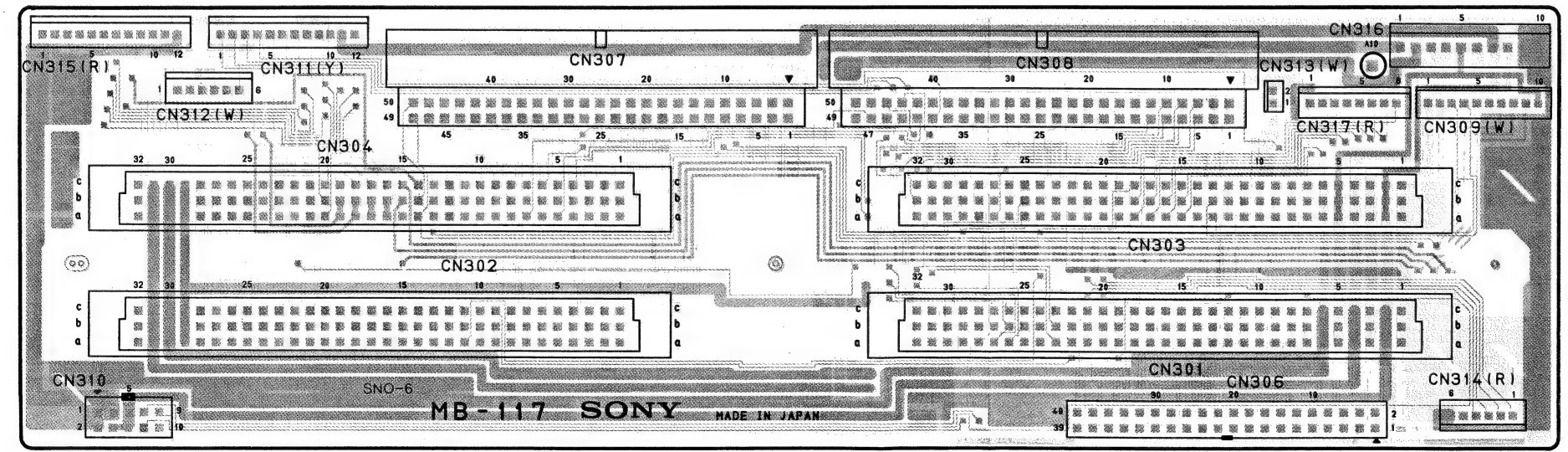
MB-116/116A/116B/116C; MOTHER BOARD
MB-117; MOTHER BOARD



MB-116/116A/116B/116C—SOLDERING SIDE—
1-622-563-12, 13
BVW-60 BVW-70
BVW-65 BVW-75
BVW-95 BVW-96



	MB-116	MB-116A	MB-116B	MB-116C
BVW-60				○
BVW-65			○	
BVW-70		○		
BVW-75	○			
BVW-95			○	
BVW-96	○			



MB-116/116C—SOLDERING SIDE—

MB-117—SOLDERING SIDE—
1-622-564-12, 13
BVW-60 BVW-70
BVW-65 BVW-75
BVW-95 BVW-96

SECTION 18

SEMICONDUCTOR ELECTRODES

ここに記載されているIC、トランジスタ、ダイオードは、それぞれの機能を等価的に表わしたものです。したがって互換性を表わすものではありません。(互換性のない型名が併記されている事もあります。)部品の交換をする時は、SPARE PARTSの章を参照して下さい。

ICs, transistors and diodes whoses functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

IC	PAGE	IC	PAGE	IC	PAGE
74F04PC.....	18-4	CXA1041M.....	18-19	MC74HC58N.....	18-31
74F74PC.....	18-4	CXD1023AQ.....	18-20	MSL917RS.....	18-32
AM26LS30PC.....	18-4	CXD1024Q.....	18-21	MSM5204ARS.....	18-32
AN3920K.....	18-4	CXD1045Q.....	18-22	NE5532P.....	18-32
AN3922NK.....	18-5	CXD1095Q.....	18-23	NJM082M.....	18-32
AN607P.....	18-5	CXD1131Q.....	18-24	NJM1496M.....	18-32
AN608P.....	18-5	CXD1216M.....	18-57	NJM2041MD.....	18-32
		CXK1202S.....	18-24	NJM2043MD.....	18-32
		CXL5001M.....	18-24	NJM2903D.....	18-33
BUL8430A.....	18-5			NJM2903M.....	18-33
BUL8440A.....	18-6	HA12411.....	18-25	NJM4556D.....	18-33
BX1098.....	18-6	HD14046BP.....	18-25	NJM4558D.....	18-33
BX1152.....	18-6	HD14538BFP.....	18-25	NJM4558D-FA.....	18-33
BX1343A.....	18-6	HD14557BFP.....	18-55	NJM4558M.....	18-33
BX343.....	18-6	HD14584BFP.....	18-25	NJM4560DD.....	18-33
BX381.....	18-54			NJM4560M.....	18-33
BX3914.....	18-7	M50747-601SP.....	18-26	NJM4562D-D.....	18-33
BX3915A.....	18-7	M51958BL.....	18-26	NJM5532M.....	18-33
CF77074NT.....	18-7	M5215L.....	18-26	NJM78??A.....	18-33
CX20061.....	18-7	M5236L.....	18-26	NJM78L??A.....	18-33
CX20099.....	18-8	M54516P.....	18-26	NJM78M??A.....	18-34
CX20158.....	18-8	M54523P.....	18-27	NJM79L??A.....	18-34
CX20162.....	18-8	M54529AP.....	18-27	NJM79M??A.....	18-34
CX22013.....	18-8	M54532P.....	18-27		
CX22017.....	18-8	MB4002PF.....	18-27	PA0009.....	18-34
CX23028.....	18-9	MB40778P.....	18-27		
CX23065.....	18-9	MB88201H-539N.....	18-27	S-802??.....	18-34
CX23084.....	18-10	MB88303.....	18-28	S-805??.....	18-34
CX770.....	18-10	MBM2212-20P.....	18-30	SM6430C.....	18-35
CX7907A.....	18-11	MBM2764-25.....	18-30	SN16913P.....	18-35
CX7912A.....	18-13	MBM27C256-25.....	18-30	SN74HC193NS.....	18-35
CX7913A.....	18-15	MC10198L.....	18-31	SN74HC245NS.....	18-35
CX7930A.....	18-54	MC10H113M.....	18-31	SN74HC368NS.....	18-35
CX7993A.....	18-17	MC10H116M.....	18-31	SN74HC373NS.....	18-36
CX7998.....	18-18	MC10H124M.....	18-31	SN74HC4024NS.....	18-36
CX877.....	18-18	MC10H125M.....	18-31	SN74HC4040NS.....	18-36
CXA1020P.....	18-18	MC14046BCP.....	18-25	SN74LS00NS.....	18-36
CXA1039M.....	18-19	MC14538BCP.....	18-25	SN74LS04NS.....	18-4
CXA1040M.....	18-19	MC34051P.....	18-31	SN74LS06NS.....	18-36
		MC74HC11F.....	18-31		

SEMICONDUCTOR INDEX

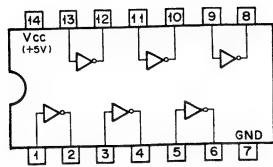
IC	PAGE	IC	PAGE	IC	PAGE
SN74LS06NS.....	18-36	TC74HC00F.....	18-42	uPC1663G.....	18-48
SN74LS11NS.....	18-36	TC74HC00P.....	18-42	uPC311G2.....	18-48
SN74LS123N.....	18-37	TC74HC04F.....	18-43	uPC319G2.....	18-48
SN74LS123NS.....	18-37	TC74HC04P.....	18-43	uPC324C.....	18-48
SN74LS163ANS.....	18-37	TC74HC08F.....	18-43	uPC339G2.....	18-48
SN74LS164NS.....	18-37	TC74HC08P.....	18-43	uPC393G2.....	18-33
SN74LS221NS.....	18-37	TC74HC11P.....	18-31	uPC4558C.....	18-48
SN74LS244N.....	18-37	TC74HC123F.....	18-43	uPC4558G2.....	18-48
SN74LS245N.....	18-38	TC74HC138F.....	18-43	uPC648C.....	18-48
SN74LS624N.....	18-38	TC74HC138P.....	18-43	uPC79??H.....	18-48
SN74LS683NS.....	18-38	TC74HC139F.....	18-43	uPD4013BC.....	18-48
SN74LS697N.....	18-38	TC74HC139P.....	18-43	uPD71054G.....	18-56
SN74LS74ANS.....	18-4	TC74HC14F.....	18-43	uPD78310CW.....	18-49
SN75107AN.....	18-39	TC74HC14P.....	18-43	uPD78312CW.....	18-50
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TA7267P.....	18-39	TC74HC160F.....	18-44		
TA7357AP.....	18-39	TC74HC221F.....	18-44		
TA78L???AP.....	18-39	TC74HC240P.....	18-44		
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TC4023BF.....	18-40	TC74HC32P.....	18-44		
TC4024BF.....	18-40	TC74HC373P.....	18-36		
TC4028BF.....	18-40	TC74HC4049F.....	18-45		
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TC4030BP.....	18-40	TC74HC4050P.....	18-45		
TC4050BF.....	18-40	TC74HC595P.....	18-45		
TC4050BP.....	18-40	TC74HC597P.....	18-45		
TC4051BF.....	18-41	TC74HC74F.....	18-45		
TC4052BF.....	18-41	TC74HC86F.....	18-45		
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TC4066BF.....	18-41	TD62901P.....	18-46		
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TC4069UBP.....	18-41	TL082CP.....	18-46		
TC4071BF.....	18-41	TL082CPS.....	18-46		
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RD??ESB?.....	18-53
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TLP801A.....	18-53
TLUG154.....	18-53
TLUR144.....	18-53
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74F04PC (FSC)
SN74LS04NS (TI) FLAT PACKAGE
TTL INVERTER
— TOP VIEW —



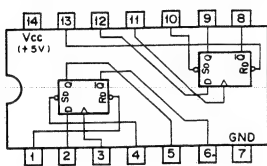
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$Y = \bar{A}$

A	Y
0	1
1	0

0: LOW LEVEL
1: HIGH LEVEL

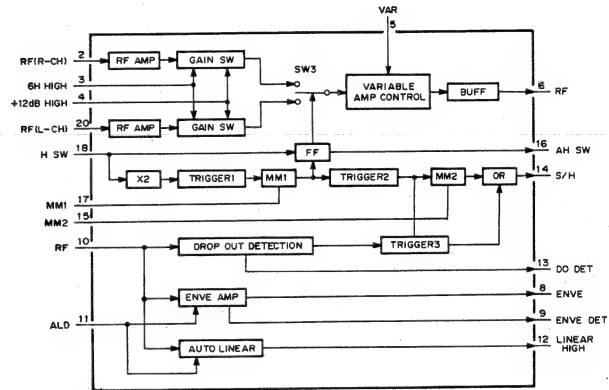
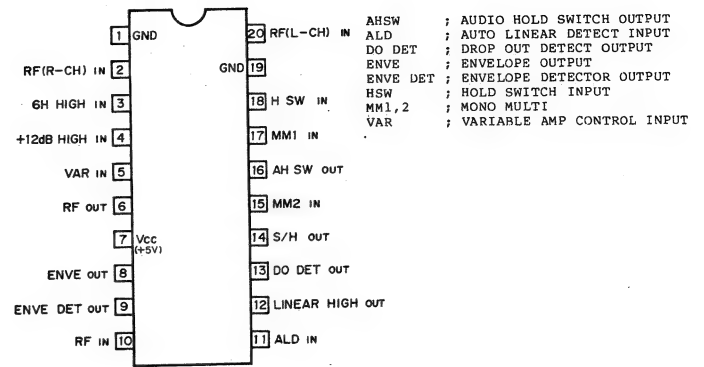
74F74PC (FSC)
SN74LS74ANS (TI) FLAT PACKAGE
TTL D-TYPE FLIP FLOP WITH DIRECT SET/RESET
— TOP VIEW —



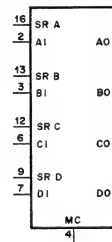
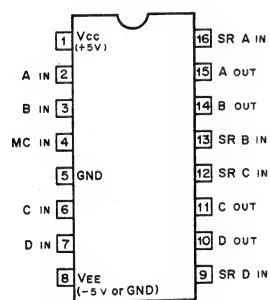
INPUTS		OUTPUTS	
S _D	R _D	Q _n	Q _{n+1}
0	1	X	0
1	0	0	1
0	0	X	1*
1	1	1	1
1	1	0	0
1	1	0	1
1	1	0	0

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
1*: NONSTABLE

AN3920K (MATSUSHITA)
VTR FM AUDIO RF AMP
— TOP VIEW —

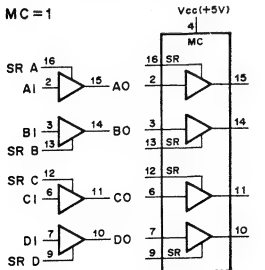


AM26LS30PC (ADVANCED MICRO DEVICES)
LINE DRIVER
— TOP VIEW —

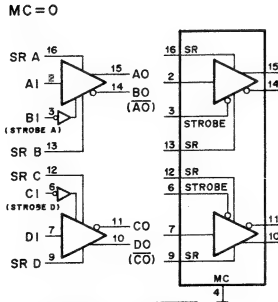


MC: MODE CONTROL
SR: SLEW RATE CONTROL

MC=1



MC=0

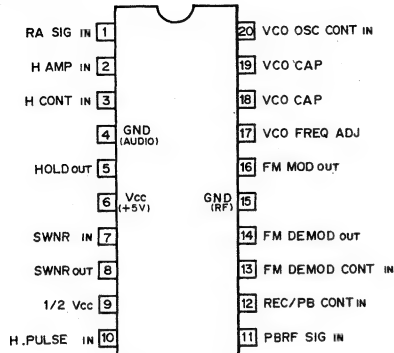


INPUTS		OUTPUTS	
MC	A TO D	A TO D	A TO D
0	0	0	0
1	1	1	1

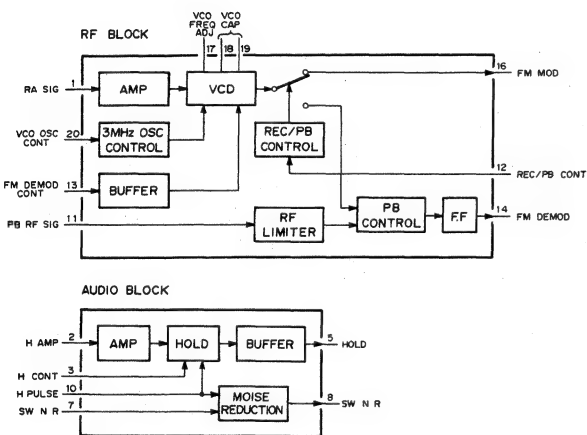
0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

INPUTS		OUTPUTS	
MC	STROBE	A & D	A & D
0	0	0	0
0	1	1	1
0	1	X	HI-Z

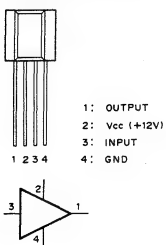
AN3922NK (MATSUSHITA)
VTR, FM AUDIO MODULATOR AND DEMODULATOR
— TOP VIEW —



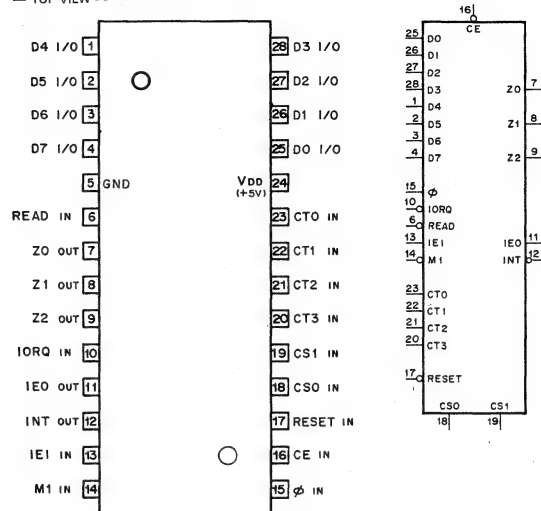
FM DEMOD : FM DEMODULATION OUTPUT
FM DEMOD CONT : FM DEMODULATION CONTROL INPUT
FM MOD : FM MODULATION OUTPUT
H AMP : HOLD AMP INPUT
H CONT : HOLD CONTROL INPUT
H PULSE : HOLD PULSE INPUT
PBRF SIG : PB RF SIGNAL INPUT
RA SIG : REC AUDIO SIGNAL INPUT
REC/PB CONT : REC/PB CONTROL INPUT
SWNR : SWITCH NOISE REDUCTION INPUT/OUTPUT
VCO CAP : VCO CAPACITOR
VCO FREQ ADJ : VCO FREQUENCY ADJUSTMENT
VCO OSC CONT : VCO OSCILLATION CONTROL INPUT



AN607P (MATSUSHITA)
AN608P (MATSUSHITA)
WIDE BAND AMPLIFIER
— PRINTED SIDE VIEW —



BU18430A (ROHM)
N-MOS COUNTER TIMER CIRCUIT
— TOP VIEW —

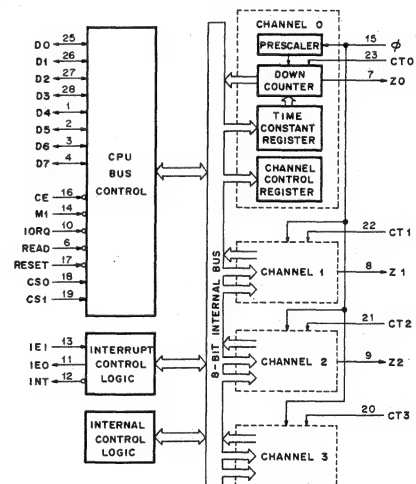


phi : SYSTEM CLOCK
CE : CHIP ENABLE
CS0, CS1 : CHANNEL SELECT
CT0-CT3 : EXTERNAL CLOCK/TIMER TRIGGER
D0-D7 : 3-STATE DATA INPUT/OUTPUT
IE0 : INTERRUPT ENABLE INPUT
IE1 : INTERRUPT ENABLE OUTPUT
INT : INTERRUPT REQUEST (OPEN DRAIN)
IORQ : I/O REQUEST
M1 : MACHINE CYCLE 1
READ : READ CYCLE STATUS
Z0-Z2 : ZERO COUNT/TIME OUT

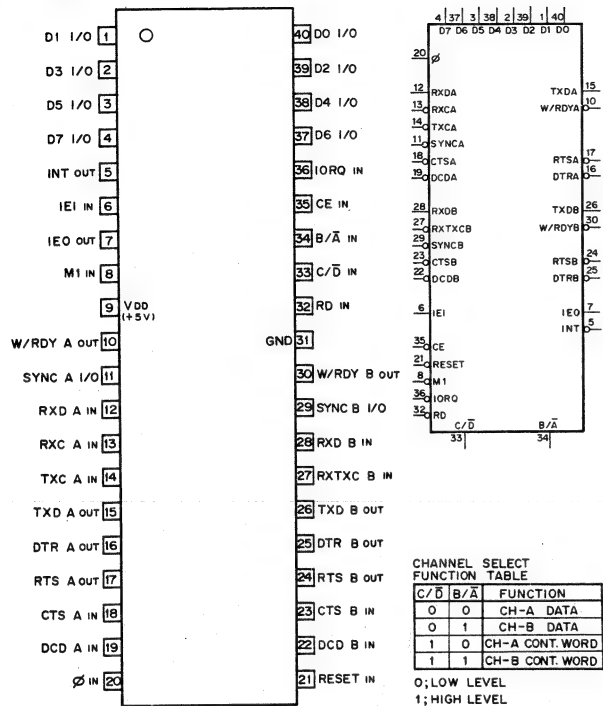
CHANNEL SELECT FUNCTION

CS1	CS0	SELECTED CHANNEL
0	0	0
0	1	1
1	0	2
1	1	3

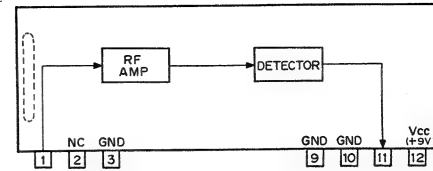
0; LOW LEVEL
1; HIGH LEVEL



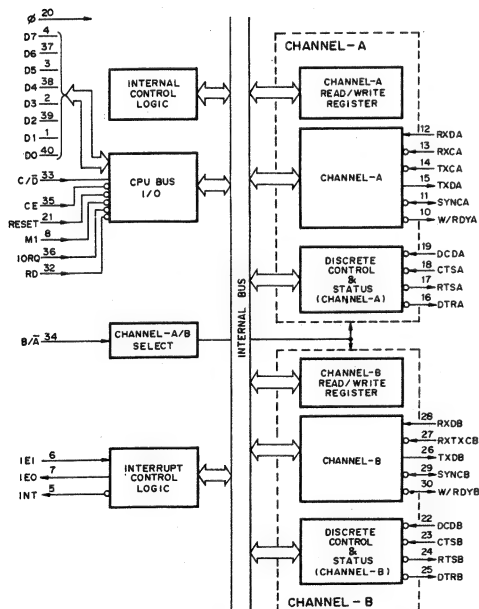
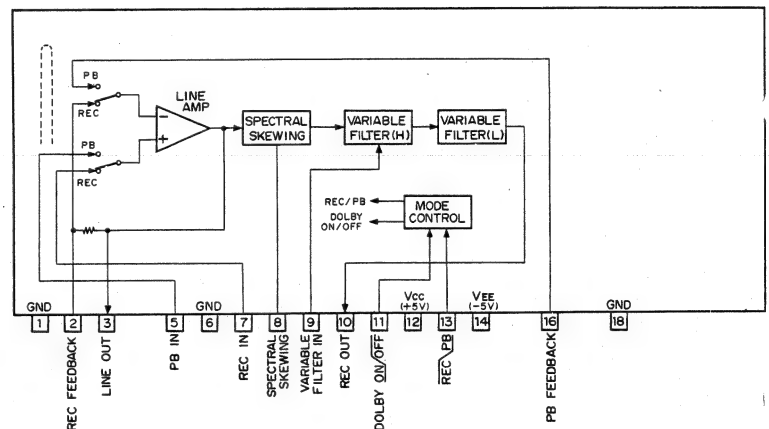
BU18440A (ROHM)
N-MOS 2-CHANNEL SERIAL INPUT/OUTPUT
FOR MICROCOMPUTER SYSTEM
— TOP VIEW —



BX1098 (SONY)
RF METER DRIVER
— REAR VIEW —



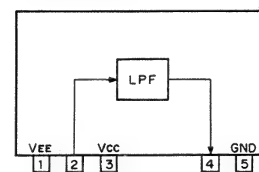
BX1152 (SONY)
DOLBY (C TYPE) NOISE REDUCTION SYSTEM
— REAR VIEW —



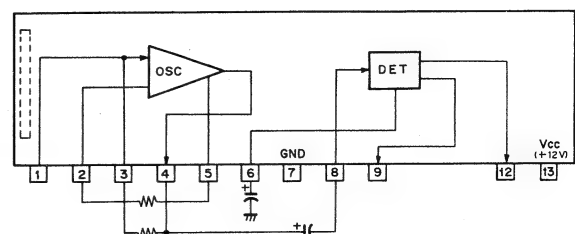
ϕ : SYSTEM CLOCK IN
D7-D0 : DATA BUS(3 STATE)/I/O
C/D : CONTROL/DATA SELECT IN
CE : CHIP ENABLE IN
M1 : MACHINE CYCLE 1 IN
IORQ : I/O REQUEST IN
RD : READ IN
B/A : CHANNEL B/A SELECT IN
IEI : INTERRUPT ENABLE IN
IEO : INTERRUPT ENABLE OUT
INT : INTERRUPT OUT

RXD : RECEIVE DATA IN
RXC : RECEIVE CLOCK IN
TXC : TRANSMIT CLOCK IN
TXD : TRANSMIT DATA OUT
SYNC : EXTERNAL CHARACTER SYNCHRONIZATION I/O
W/RDY : WAIT/READY OUT
DCD : DATA CARRIER DETECT IN
CTS : CLEAR TO SEND IN
RTS : REQUEST TO SEND OUT
DTR : DATA TERMINAL READY OUT

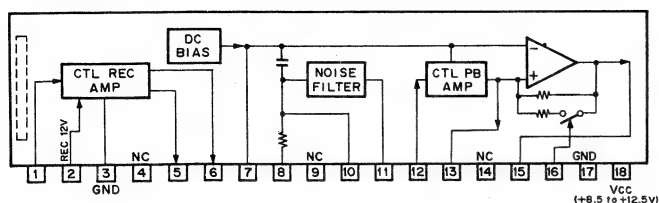
BX-1343A (SONY)
ACTIVE LOW-PASS FILTER
— IMPRINTED SIDE VIEW —



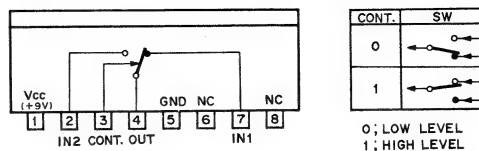
BX343 (SONY)
OSCILLATOR/DETECTOR
— REAR VIEW —



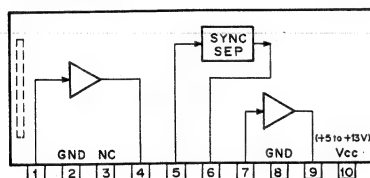
BX3914 (SONY)
CTL REC/PB AMPLIFIER
— PRINTED SIDE —



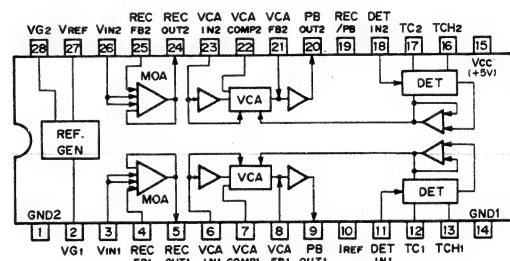
CX20061 (SONY)
ANALOG SWITCH
— SIDE VIEW —



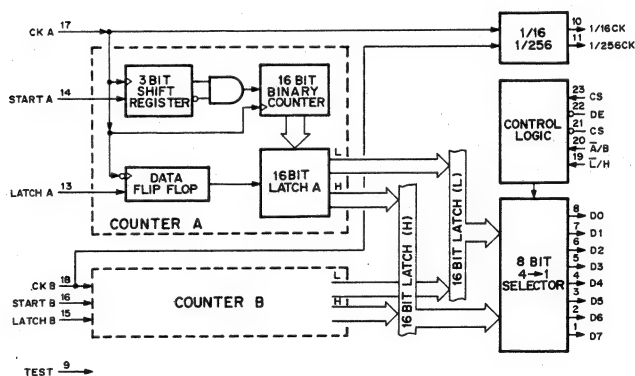
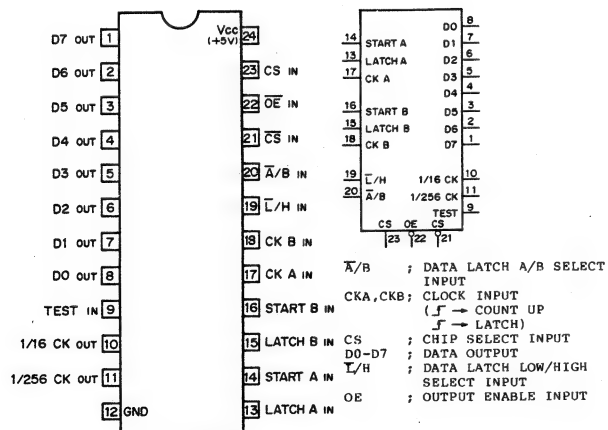
BX3915A (SONY)
SYNC SEPARATOR
— PRINTED SIDE —



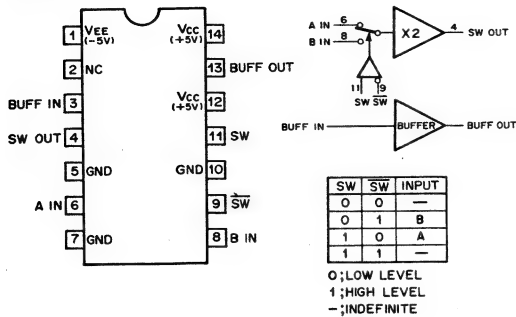
CX20099 (SONY)
VOLTAGE CONTROLLED AMP/DETECTOR/MAIN OPERATIONAL AMP
— TOP VIEW —



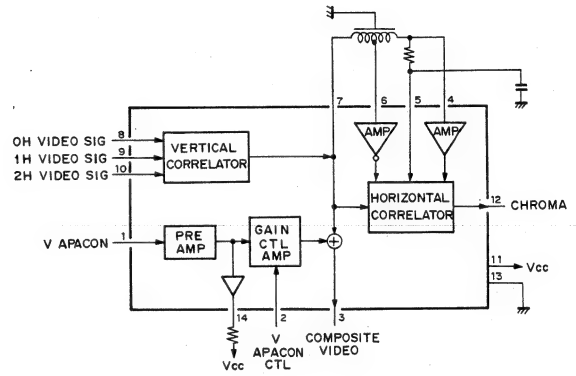
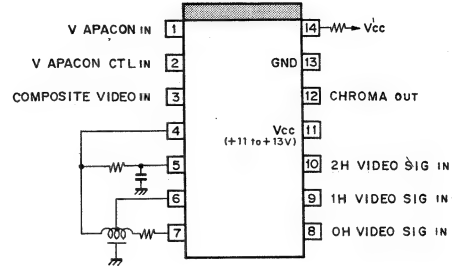
CF77074NT (TI)
CLOCK COUNTER
— TOP VIEW —



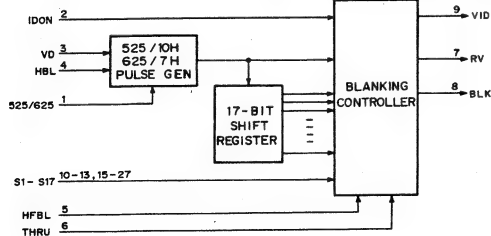
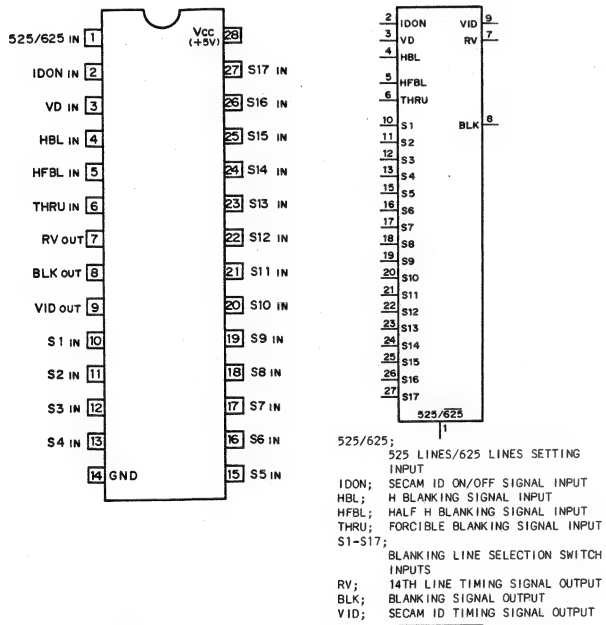
CX20158 (SONY)
VIDEO SWITCHER AND BUFFER
— TOP VIEW —



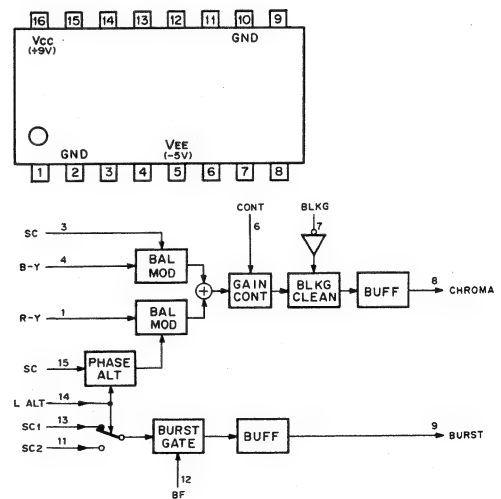
CX22013 (SONY)
DYNAMIC COMB FILTER
— TOP VIEW —



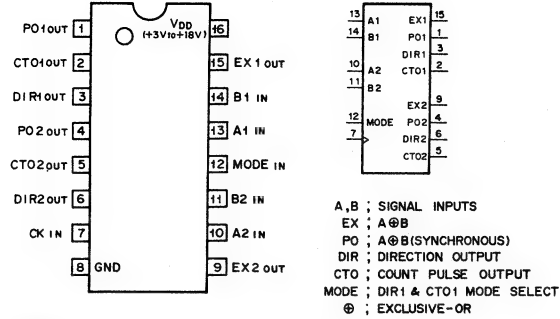
CX20162 (SONY)
BIPOLAR/TTL VERTICAL BLANKING WIDTH CONTROLLER
— TOP VIEW —



CX22017 (SONY)
VIDEO SIGNAL PROCESSOR
— TOP VIEW —



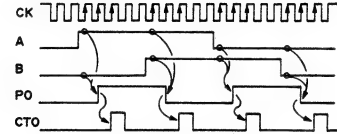
CX23028 (SONY)
C-MOS SYNCHRONOUS ROTATIONAL DIRECTION DETECTOR
— TOP VIEW —



MODE="1"

INPUTS	DIR
A < B	1
B < A	0

TIMING CHART "CTO"



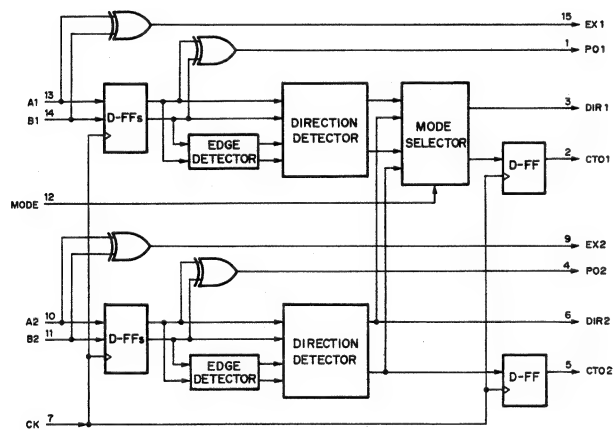
MODE="0"

INPUTS		DIR 1	DIR 2
CH1	CH2		
A1 < B1	A2 < B2	1	
B1 < A1	A2 < B2	0	
A1 < B1	B2 < A2	1	0
B1 < A1	B2 < A2	0	1

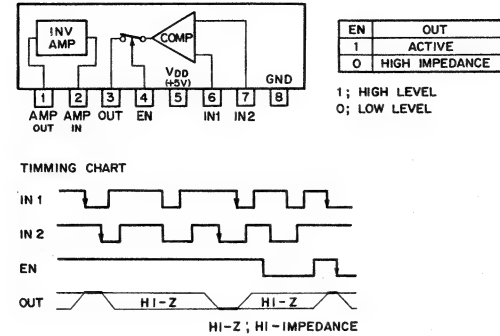
OUTPUT "1" AND "0" ALTERNATELY
THE SAME FUNCTION OF MODE "1"

CTO 1: CTO1 with MODE "0" = CTO1 with MODE "1" + CTO 2
CTO 2: THE SAME FUNCTION OF MODE "1"

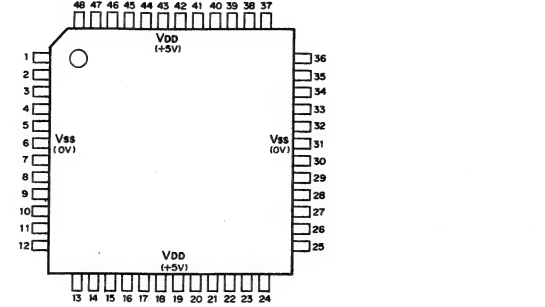
1: HIGH LEVEL
0: LOW LEVEL
A < B: THE PHASE OF SIGNAL A IS IN ADVANCE FOR THE PHASE OF B.



CX23065 (SONY)
N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER
— PRINTED SIDE VIEW —

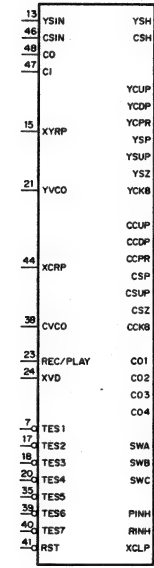


CX23084 (SONY) FLAT PACKAGE
C-MOS TIMING GENERATOR/CCD CLOCK GENERATOR
— TOP VIEW —

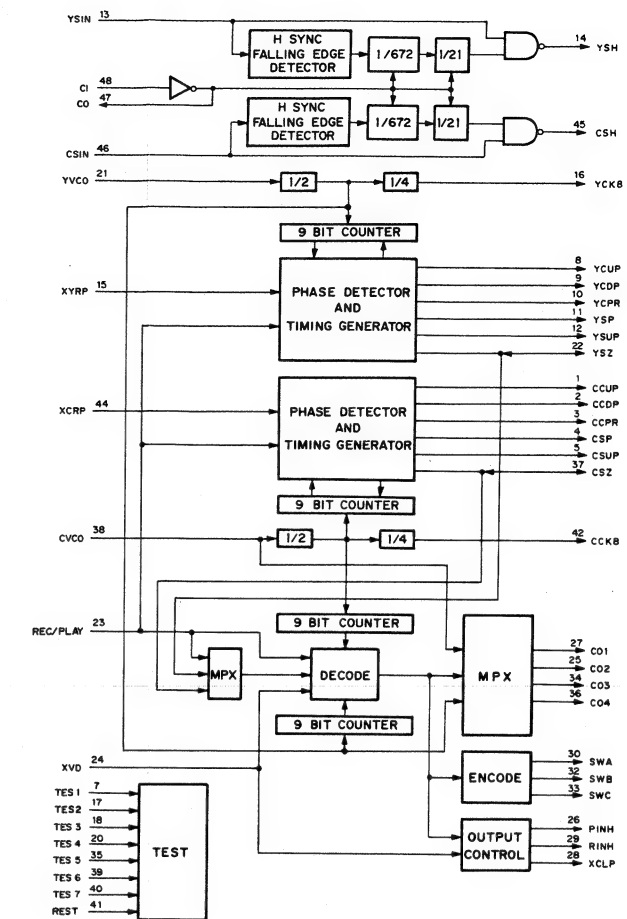


PIN ASSIGNMENT

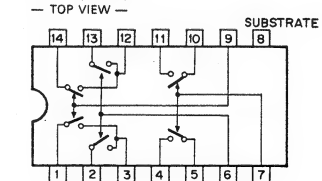
PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1	○	○	CCUP	13	○	○	YSIN	25	○	○	CO2	37	○	○	CSZ
2	○	○	CCDP	14	○	○	YSH	26	○	○	PINH	38	○	○	CVCO
3	○	○	CCPR	15	○	○	XYRP	27	○	○	CO1K	39	○	○	TES 6
4	○	○	CSP	16	○	○	YCKB	28	○	○	XCLP	40	○	○	TES 7
5	○	○	CSUP	17	○	○	TES 2	29	○	○	RINH	41	○	○	RST
6	○	○	VSS	18	○	○	TES 3	30	○	○	SWA	42	○	○	CCK 8
7	○	○	TES 1	19	○	○	VDD	31	○	○	VSS	43	○	○	VDD
8	○	○	YCUP	20	○	○	TES 4	32	○	○	SWB	44	○	○	XCRP
9	○	○	YCDP	21	○	○	YVCO	33	○	○	SWC	45	○	○	CSH
10	○	○	YCPR	22	○	○	YSZ	34	○	○	CO 3	46	○	○	CSIN
11	○	○	YSP	23	○	○	REC/PLAY	35	○	○	TES 5	47	○	○	CO
12	○	○	YSUP	24	○	○	XVD	36	○	○	CO 4	48	○	○	CI

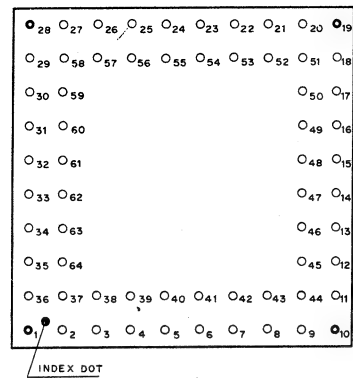


CCDP: CHROMA CHARGE DOWN PULSE OUT
CCK 8: CHROMA VCO 1/8 COUNT DOWN OUT
CCPR: CHROMA CHARGE PUMP RESET PULSE OUT
CCUP: CHROMA CHARGE UP PULSE OUT
CI: CLOCK IN (SELECTED HI)
CO: CLOCK OUT (SELECTED HI)
CO1-4: CLOCK OUT (CCD DRIVE)
CSH: CHROMA SELECTED H OUT
CSIN: CHROMA HORIZONTAL SYNC IN
CSP: CHROMA SAMPLING PULSE OUT
CSUP: CHROMA SPEED UP PULSE OUT
CSZ: CHROMA SYNC ZERO OUT (PLAYBACK)
CVCO: CHROMA VCO CLOCK IN
PINH: PLAY INHIBIT OUT
REC/PLAY: REC/PLAY SELECT IN
RST: RESET IN
RINH: REC INHIBIT OUT
SWA, SWB, SWC: CCD READ DATA SELECT A, B, C OUT
TES 1-7: TEST 1-7 IN
XCLP: CHROMA CLAMP OUT
XCRP: CHROMA VCO RESET PULSE IN
XYRP: Y VCO RESET PULSE
XVD: VD IN
YCDP: Y CHARGE DOWN PULSE OUT
YCKB: Y VCO 1/8 COUNT DOWN OUT
YCPR: Y CHARGE PUMP RESET PULSE OUT
YCUP: Y CHARGE UP PULSE OUT
YSH: Y SELECTED H OUT
YSIN: Y HORIZONTAL SYNC IN
YSP: Y SAMPLING PULSE OUT
YSUP: Y SPEED UP PULSE OUT
YSZ: Y SYNC ZERO (RECORD)
YVCO: Y VCO CLOCK IN



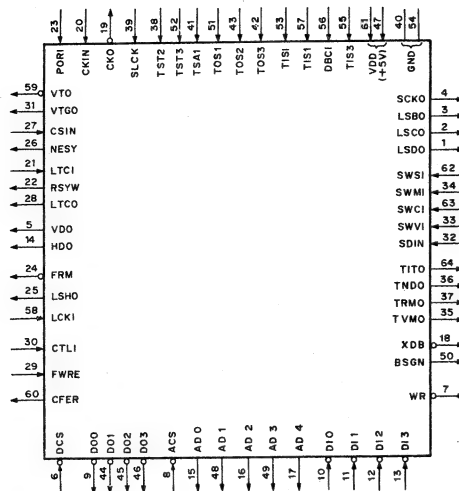
CX770 (SONY)
— TOP VIEW —



CX7907A (SONY)
C-MOS TIME CODE GENERATOR
— TOP VIEW —

PIN ASSIGNMENT

Pin No.	IN	OUT	SYMBOL	Pin No.	IN	OUT	SYMBOL	Pin No.	IN	OUT	SYMBOL	Pin No.	IN	OUT	SYMBOL
1			LSDO	17			AD4	33			SWVI	49			AD3
2			LSDO	18			XDB	34			SWMI	50			BSGN
3			LSBO	19			CKO	35			TVMO	51			TOS1
4			CKO	20			CKIN	36			TRMO	52			TOS2
5			VDO	21			LTCI	37			TSI1	53			TOS3
6			DCS	22			RSYW	38			GND	54			GND
7			WR	23			PORI	39			SLCK	55			TSI3
8			ACS	24			FRM	40			GND	56			DBCI
9			DO0	25			LSHO	41			TSI1	57			TSI1
10			DI0	26			NESE	42			LCKI	58			LCKI
11			DI1	27			CSIN	43			DO1	59			VTO
12			DI2	28			CTLI	44			DO2	60			CFER
13			DI3	29			FWRE	45			DO3	61			VDD(+5V)
14			HDO	30			CTLI	46			DO3	62			SWI1
15			AD0	31			AD0	47			VDD(+5V)	63			SWI2
16			AD2	32			SDIN	48			AD1	64			TITO



#32 SDIN

LSDO	LSBO	LSBO	SDIN	FUNCTION
0	0	0	0	INCREASE IN BIT 'FR OF U1'
0	0	0	1	INCREASE IN BIT 'FT OF U2'
0	1	0	0	INCREASE IN BIT 'SE OF U3'
0	1	0	1	INCREASE IN BIT 'ST OF U4'
1	0	0	0	INCREASE IN BIT 'MN OF U5'
1	0	0	1	INCREASE IN BIT 'MT OF U6'
1	1	0	0	INCREASE IN BIT 'MR OF U7'
1	1	0	1	INCREASE IN BIT 'HT OF U8'

NOTE: INFLUENCED BIT IS DECIDED BY FIRST 2 BITS OF SWCI.

#33 SWVI

LSDO	LSBO	LSBO	SWVI	FUNCTION
0	0	0	0	VITC POSITION SELECT A
0	0	0	1	VITC POSITION SELECT B
0	1	0	0	VITC POSITION SELECT A
0	1	0	1	VITC POSITION SELECT B
1	0	0	0	VITC POSITION SELECT A
1	0	0	1	VITC POSITION SELECT B
1	1	0	0	VITC POSITION SELECT A
1	1	0	1	VITC POSITION SELECT B

†, VITC POSITION SELECT

SW1D	SW1C	SW1B	SW1A	SW2D	SW2C	SW2B	SW2A	FUNCTION
0	0	0	0	0	0	0	0	LINE 25
0	0	0	0	0	0	0	1	LINE 26
0	0	0	0	0	0	1	0	LINE 27
0	0	0	0	0	0	1	1	LINE 28
0	0	0	0	0	1	0	0	LINE 29
0	0	0	0	0	1	0	1	LINE 30
0	0	0	0	0	1	1	0	LINE 31
0	0	0	0	0	1	1	1	LINE 32
0	0	0	0	1	0	0	0	LINE 33
0	0	0	0	1	0	0	1	LINE 34
0	0	0	0	1	0	1	0	LINE 35
0	0	0	0	1	0	1	1	LINE 36
0	0	0	0	1	1	0	0	LINE 37
0	0	0	0	1	1	0	1	LINE 38
0	0	0	0	1	1	1	0	LINE 39
0	0	0	0	1	1	1	1	LINE 40
0	0	0	0	1	1	1	1	LINE 41
0	0	0	0	1	1	1	1	LINE 42
0	0	0	0	1	1	1	1	LINE 43
0	0	0	0	1	1	1	1	LINE 44
0	0	0	0	1	1	1	1	LINE 45
0	0	0	0	1	1	1	1	LINE 46
0	0	0	0	1	1	1	1	LINE 47
0	0	0	0	1	1	1	1	LINE 48
0	0	0	0	1	1	1	1	LINE 49
0	0	0	0	1	1	1	1	LINE 50
0	0	0	0	1	1	1	1	LINE 51
0	0	0	0	1	1	1	1	LINE 52
0	0	0	0	1	1	1	1	LINE 53
0	0	0	0	1	1	1	1	LINE 54
0	0	0	0	1	1	1	1	LINE 55
0	0	0	0	1	1	1	1	LINE 56
0	0	0	0	1	1	1	1	LINE 57
0	0	0	0	1	1	1	1	LINE 58
0	0	0	0	1	1	1	1	LINE 59
0	0	0	0	1	1	1	1	LINE 60
0	0	0	0	1	1	1	1	LINE 61
0	0	0	0	1	1	1	1	LINE 62
0	0	0	0	1	1	1	1	LINE 63
0	0	0	0	1	1	1	1	LINE 64
0	0	0	0	1	1	1	1	LINE 65
0	0	0	0	1	1	1	1	LINE 66
0	0	0	0	1	1	1	1	LINE 67
0	0	0	0	1	1	1	1	LINE 68
0	0	0	0	1	1	1	1	LINE 69
0	0	0	0	1	1	1	1	LINE 70
0	0	0	0	1	1	1	1	LINE 71
0	0	0	0	1	1	1	1	LINE 72
0	0	0	0	1	1	1	1	LINE 73
0	0	0	0	1	1	1	1	LINE 74
0	0	0	0	1	1	1	1	LINE 75
0	0	0	0	1	1	1	1	LINE 76
0	0	0	0	1	1	1	1	LINE 77
0	0	0	0	1	1	1	1	LINE 78
0	0	0	0	1	1	1	1	LINE 79
0	0	0	0	1	1	1	1	LINE 80
0	0	0	0	1	1	1	1	LINE 81
0	0	0	0	1	1	1	1	LINE 82
0	0	0	0	1	1	1	1	LINE 83
0	0	0	0	1	1	1	1	LINE 84
0	0	0	0	1	1	1	1	LINE 85
0	0	0	0	1	1	1	1	LINE 86
0	0	0	0	1	1	1	1	LINE 87
0	0	0	0	1	1	1	1	LINE 88
0	0	0	0	1	1	1	1	LINE 89
0	0	0	0	1	1	1	1	LINE 90
0	0	0	0	1	1	1	1	LINE 91
0	0	0	0	1	1	1	1	LINE 92
0	0	0	0	1	1	1	1	LINE 93
0	0	0	0	1	1	1	1	LINE 94
0	0	0	0	1	1	1	1	LINE 95
0	0	0	0	1	1	1	1	LINE 96
0	0	0	0	1	1	1	1	LINE 97
0	0	0	0	1	1	1	1	LINE 98
0	0	0	0	1	1	1	1	LINE 99
0	0	0	0	1	1	1	1	LINE 100

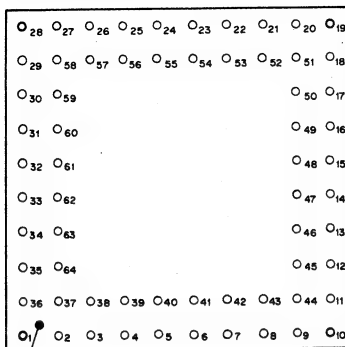
#34 SWMI

LSDO	LSBO	LSBO	SWMI	FUNCTION
0	0	0	0	INSERT SWMI DATA INTO BIT 'AS1' (NEGATIVE-LOGIC)
0	0	0	1	INSERT SWMI DATA INTO BIT 'AS2' (NEGATIVE-LOGIC)
0	0	0	1	INSERT SWMI DATA INTO BIT 'AS3' (NEGATIVE-LOGIC)
0	0	0	1	INSERT SWMI DATA INTO BIT 'AS4' (NEGATIVE-LOGIC)
0	0	0	1	INSERT SWMI DATA INTO BIT 'AS5' (NEGATIVE-LOGIC)
0	0	0	1	INSERT SWMI DATA INTO BIT 'AS6' (NEGATIVE-LOGIC)
1	0	0	0	COLOR FRAME LOCK IN FIELD 1
1	0	0	1	COLOR FRAME LOCK IN FIELD 2
1	0	0	1	COLOR FRAME LOCK IN FIELD 3
1	0	0	1	COLOR FRAME LOCK IN FIELD 4
1	0	0	1	COLOR FRAME LOCK IN FIELD 5
1	0	0	1	COLOR FRAME LOCK IN FIELD 6
1	0	0	1	COLOR FRAME LOCK IN FIELD 7
1	0	0	1	COLOR FRAME LOCK IN FIELD 8
1	0	0	1	COLOR FRAME LOCK IN FIELD 9
1	0	0	1	COLOR FRAME LOCK IN FIELD 10
1	0	0	1	COLOR FRAME LOCK IN FIELD 11
1	0	0	1	COLOR FRAME LOCK IN FIELD 12
1	0	0	1	COLOR FRAME LOCK IN FIELD 13
1	0	0	1	COLOR FRAME LOCK IN FIELD 14
1	0	0	1	COLOR FRAME LOCK IN FIELD 15
1	0	0	1	COLOR FRAME LOCK IN FIELD 16
1	0	0	1	COLOR FRAME LOCK IN FIELD 17
1	0	0	1	COLOR FRAME LOCK IN FIELD 18
1	0	0	1	COLOR FRAME LOCK IN FIELD 19
1	0	0	1	COLOR FRAME LOCK IN FIELD 20
1	0	0	1	COLOR FRAME LOCK IN FIELD 21
1	0	0	1	COLOR FRAME LOCK IN FIELD 22
1	0	0	1	COLOR FRAME LOCK IN FIELD 23
1	0	0	1	COLOR FRAME LOCK IN FIELD 24
1	0	0	1	COLOR FRAME LOCK IN FIELD 25
1	0	0	1	COLOR FRAME LOCK IN FIELD 26
1	0	0	1	COLOR FRAME LOCK IN FIELD 27
1	0	0	1	COLOR FRAME LOCK IN FIELD 28
1	0	0	1	COLOR FRAME LOCK IN FIELD 29
1	0	0	1	COLOR FRAME LOCK IN FIELD 30
1	0	0	1	COLOR FRAME LOCK IN FIELD 31
1	0	0	1	COLOR FRAME LOCK IN FIELD 32
1	0	0	1	COLOR FRAME LOCK IN FIELD 33
1	0	0	1	COLOR FRAME LOCK IN FIELD 34
1	0	0	1	COLOR FRAME LOCK IN FIELD 35
1	0	0	1	COLOR FRAME LOCK IN FIELD 36
1	0	0	1	COLOR FRAME LOCK IN FIELD 37
1	0	0	1	COLOR FRAME LOCK IN FIELD 38
1	0	0	1	COLOR FRAME LOCK IN FIELD 39
1	0	0	1	COLOR FRAME LOCK IN FIELD 40
1	0	0	1	COLOR FRAME LOCK IN FIELD 41
1	0	0	1	COLOR FRAME LOCK IN FIELD 42
1	0	0	1	COLOR FRAME LOCK IN FIELD 43
1	0	0	1	COLOR FRAME LOCK IN FIELD 44
1	0	0	1	COLOR FRAME LOCK IN FIELD 45
1	0	0	1	COLOR FRAME LOCK IN FIELD 46
1	0	0	1	COLOR FRAME LOCK IN FIELD 47
1	0	0	1	COLOR FRAME LOCK IN FIELD 48
1	0	0	1	COLOR FRAME LOCK IN FIELD 49
1	0	0	1	COLOR FRAME LOCK IN FIELD 50
1	0	0	1	COLOR FRAME LOCK IN FIELD 51
1	0	0	1	COLOR FRAME LOCK IN FIELD 52
1	0	0	1	COLOR FRAME LOCK IN FIELD 53
1	0	0	1	COLOR FRAME LOCK IN FIELD 54
1	0	0	1	COLOR FRAME LOCK IN FIELD 55
1	0	0	1	COLOR FRAME LOCK IN FIELD 56
1	0	0	1	COLOR FRAME LOCK IN FIELD 57
1	0	0	1	COLOR FRAME LOCK IN FIELD 58
1	0	0	1	COLOR FRAME LOCK IN FIELD 59
1	0	0	1	COLOR FRAME LOCK IN FIELD 60
1	0	0	1	COLOR FRAME LOCK IN FIELD 61
1	0	0	1	COLOR FRAME LOCK IN FIELD 62
1	0	0	1	COLOR FRAME LOCK IN FIELD 63
1	0	0	1	COLOR FRAME LOCK IN FIELD 64
1	0	0	1	COLOR FRAME LOCK IN FIELD 65
1	0	0	1	COLOR FRAME LOCK IN FIELD 66
1	0	0	1	COLOR FRAME LOCK IN FIELD 67
1	0	0	1	COLOR FRAME LOCK IN FIELD 68
1	0	0	1	COLOR FRAME LOCK IN FIELD 69
1	0	0	1	COLOR FRAME LOCK IN FIELD 70
1	0	0	1	COLOR FRAME LOCK IN FIELD 71
1	0	0	1	COLOR FRAME LOCK IN FIELD 72
1	0	0	1	COLOR FRAME LOCK IN FIELD 73
1	0	0	1	COLOR FRAME LOCK IN FIELD 74
1	0	0	1	COLOR FRAME LOCK IN FIELD 75
1	0	0	1	COLOR FRAME LOCK IN FIELD 76
1	0	0	1	COLOR FRAME LOCK IN FIELD 77
1	0	0	1	COLOR FRAME LOCK IN FIELD 78
1	0	0	1	COLOR FRAME LOCK IN FIELD 79
1	0	0	1	COLOR FRAME LOCK IN FIELD 80
1	0	0	1	COLOR FRAME LOCK IN FIELD 81
1	0	0	1	COLOR FRAME LOCK IN FIELD 82
1	0	0	1	COLOR FRAME LOCK IN FIELD 83
1	0	0	1	COLOR FRAME LOCK IN FIELD 84
1	0	0	1	COLOR FRAME LOCK IN FIELD 85
1	0	0	1	COLOR FRAME LOCK IN FIELD 86
1	0	0	1	COLOR FRAME LOCK IN FIELD 87
1	0	0	1	COLOR FRAME LOCK IN FIELD 88
1	0	0	1	COLOR FRAME LOCK IN FIELD 89
1	0	0	1	COLOR FRAME LOCK IN FIELD 90
1	0	0	1	COLOR FRAME LOCK IN FIELD 91
1	0	0	1	COLOR FRAME LOCK IN FIELD 92
1	0	0	1	COLOR FRAME LOCK IN FIELD 93
1	0	0	1	COLOR FRAME LOCK IN FIELD 94
1	0	0	1	COLOR FRAME LOCK IN FIELD 95
1	0	0	1	COLOR FRAME LOCK IN FIELD 96
1	0	0	1	COLOR FRAME LOCK IN FIELD 97
1	0	0	1	COLOR FRAME LOCK IN FIELD 98
1	0	0	1	COLOR FRAME LOCK IN FIELD 99
1	0	0	1	COLOR FRAME LOCK IN FIELD 100

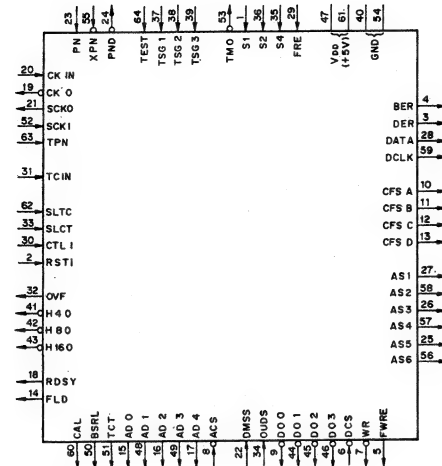
#62 SWSI

LSDO	LSCO	LSBO	SWSI	FUNCTION
0	0	0	FB51*	VITC FIELD MARK/
0	0	1	FB52*	LTC PHASE CORRECTION
0	1	0	FB53*	POSITION SELECT
0	1	1	0	PHASE CORRECTION ON
1	1	1	1	PHASE CORRECTION OFF
1	0	0	S1**	SIGNAL FORMAT
1	0	1	S2**	SELECT
1	1	0	S4**	
1	1	1	x	

-
x; DON'T CARE.

CX7912A (SONY)
C-MOS TIME CODE READER
— TOP VIEW —

PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1			S1	17			AD 4	33			SLCT	49			AD 3
2			RST1	18			RDSY	34			OU0S	50			BSRL
3			DER	19			CK 0	35			S4	51			TCT
4			BER	20			CK IN	36			S2	52			SK1
5			FWRE	21			SCK0	37			TSG 1	53			TMO
6			DCS	22			DMSS	38			TSG 2	54			GND
7			WR	23			PN	39			TSG 3	55			XPN
8			ACS	24			PND	40			GND	56			AS6
9			DO 0	25			AS 5	41			H 4 0	57			AS4
10			CFS A	26			AS 3	42			H 8 0	58			AS2
11			CFS B	27			AS 1	43			H 16 0	59			DCLK
12			CFS C	28			DATA	44			DO 1	60			CAL
13			CFS D	29			FRE	45			DO 2	61			VDDH5V
14			FLD	30			CTL 1	46			DO 3	62			SLTC
15			AD 0	31			TC IN	47			VDDH5V	63			TPN
16			AD 2	32			OVF	48			AD 1	64			TEST

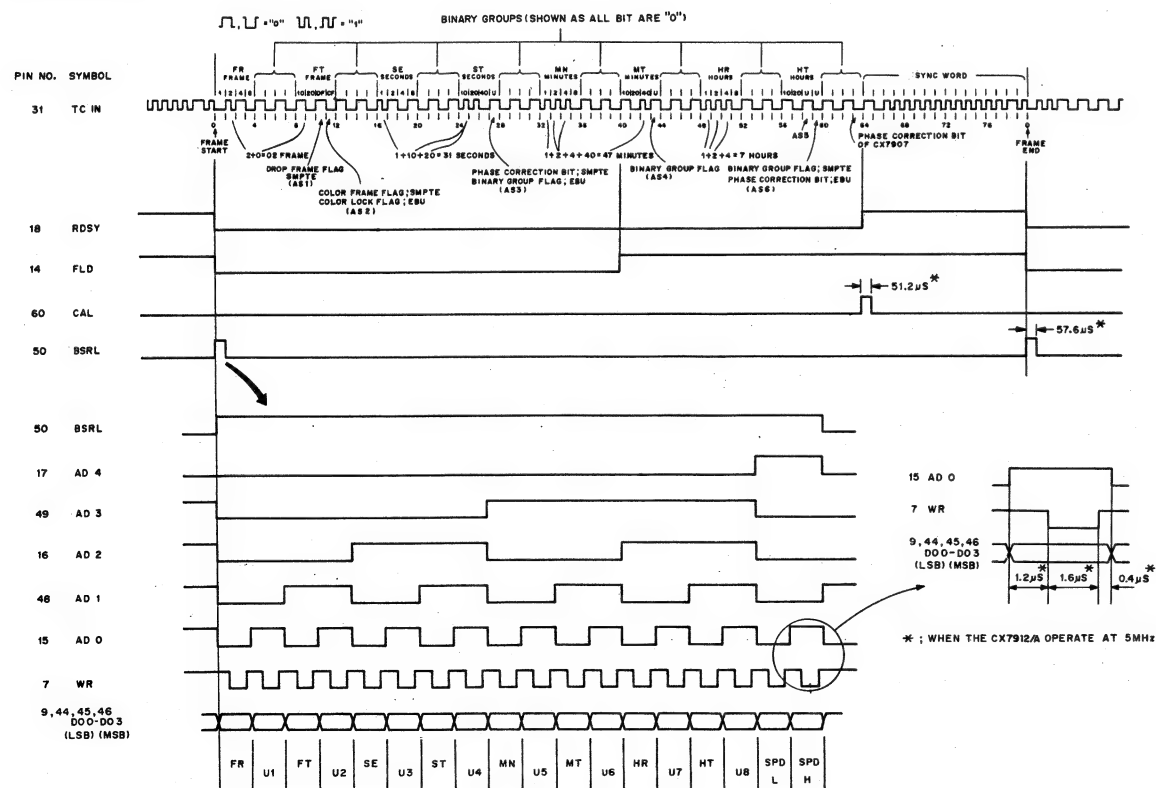


SLCT	SLTC	MODE	PRE	RTI	COUNT
0	0	AUTO	0	X	DOWN COUNT
0	1	TIME CODE	1	X	UP COUNT
1	0	CTL	X	L	RESET
1	1	AUTO			

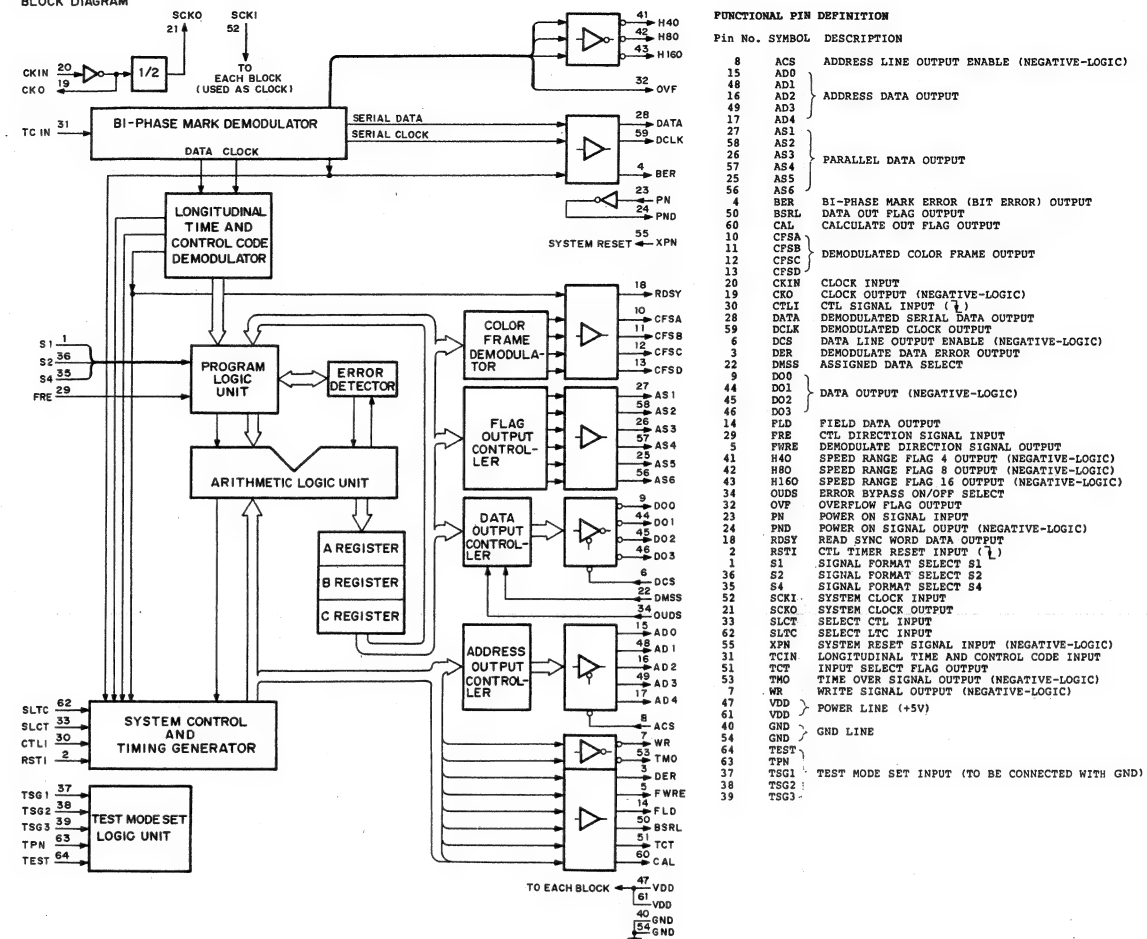
S4	S2	S1	FORMAT	FRAME
0	0	0	FILM	24
0	1	0	NOT ALLOWED	—
0	1	1	—	—
1	0	0	PAL, SECAM	25
1	0	1	NOT ALLOWED	—
1	1	0	NTSC (NON DROP FRAME)	30
1	1	1	NTSC (DROP FRAME)	30

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

TIMING CHART



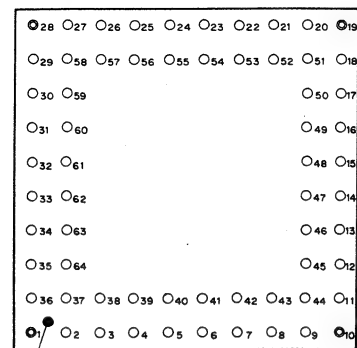
BLOCK DIAGRAM



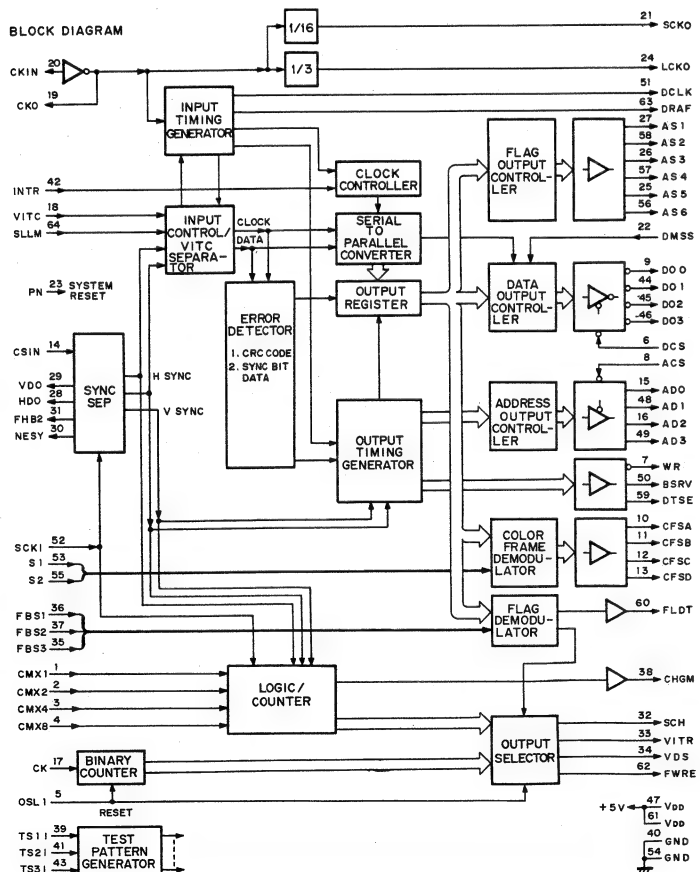
FUNCTIONAL PIN DEFINITION

PIN NO.	SYMBOL	DESCRIPTION
8	ACS	ADDRESS LINE OUTPUT ENABLE (NEGATIVE-LOGIC)
15	AD0	ADDRESS DATA OUTPUT
16	AD1	ADDRESS DATA OUTPUT
17	AD2	ADDRESS DATA OUTPUT
18	AD3	ADDRESS DATA OUTPUT
19	AD4	ADDRESS DATA OUTPUT
20	AS1	PARALLEL DATA OUTPUT
21	AS2	PARALLEL DATA OUTPUT
22	AS3	PARALLEL DATA OUTPUT
23	AS4	PARALLEL DATA OUTPUT
24	AS5	PARALLEL DATA OUTPUT
25	AS6	PARALLEL DATA OUTPUT
26	PN	BI-PHASE MARK ERROR (BIT ERROR) OUTPUT
27	BSRL	DATA OUT FLAG OUTPUT
28	CAL	CALCULATE OUT FLAG OUTPUT
29	CFS A	DEMODULATED COLOR FRAME OUTPUT
30	CFS B	DEMODULATED COLOR FRAME OUTPUT
31	CFS C	DEMODULATED COLOR FRAME OUTPUT
32	CFS D	DEMODULATED COLOR FRAME OUTPUT
33	CKIN	CLOCK INPUT
34	CKO	CLOCK OUTPUT (NEGATIVE-LOGIC)
35	CTL1	CTL SIGNAL INPUT (L)
36	CTL2	CTL SIGNAL INPUT (L)
37	DATA	DEMODULATED SERIAL DATA OUTPUT
38	DCLK	DEMODULATED CLOCK OUTPUT
39	DCS	DATA LINE OUTPUT ENABLE (NEGATIVE-LOGIC)
40	DER	DEMODULATE DATA ERROR OUTPUT
41	DMSS	ASSIGNED DATA SELECT
42	DO0	DATA OUTPUT (NEGATIVE-LOGIC)
43	DO1	DATA OUTPUT (NEGATIVE-LOGIC)
44	DO2	DATA OUTPUT (NEGATIVE-LOGIC)
45	DO3	DATA OUTPUT (NEGATIVE-LOGIC)
46	DO4	DATA OUTPUT (NEGATIVE-LOGIC)
47	FIELD	FIELD DATA OUTPUT
48	FRE	CTL DIRECTION SIGNAL INPUT
49	H40	DEMODULATE DIRECTION SIGNAL OUTPUT
50	H80	SPEED RANGE FLAG 4 OUTPUT (NEGATIVE-LOGIC)
51	H160	SPEED RANGE FLAG 8 OUTPUT (NEGATIVE-LOGIC)
52	ERROR	ERROR BYPASS ON/OFF SELECT
53	OVF	OVERFLOW FLAG OUTPUT
54	PN	POWER ON SIGNAL INPUT
55	PND	POWER ON SIGNAL OUTPUT (NEGATIVE-LOGIC)
56	RDSY	READ SYNC WORD DATA OUTPUT
57	RST1	CTL TIMER RESET INPUT (L)
58	S1	SIGNAL FORMAT SELECT S1
59	S2	SIGNAL FORMAT SELECT S2
60	S4	SIGNAL FORMAT SELECT S4
61	SCK1	SYSTEM CLOCK INPUT
62	SCK0	SYSTEM CLOCK OUTPUT
63	SLCT	SELECT CTL INPUT
64	SLTC	SELECT LTC INPUT
65	XPN	SYSTEM RESET SIGNAL INPUT (NEGATIVE-LOGIC)
66	TCIN	LONGITUDINAL TIME AND CONTROL CODE INPUT
67	TCT	INPUT SELECT FLAG OUTPUT
68	TMO	TIME OVER SIGNAL OUTPUT (NEGATIVE-LOGIC)
69	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
70	VDD	POWER LINE (+5V)
71	VDD	POWER LINE (+5V)
72	GND	GND LINE
73	TEST	TEST
74	TPN	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)
75	TSG1	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)
76	TSG2	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)
77	TSG3	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)

CX7913A (SONY)
C-MOS VITC (VERTICAL INTERVAL TIME CODE) READER
— TOP VIEW —



PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1			CMX1	17			CK	33			VITC	49			AD3
2			CMX2	18			CK	34			VDS	50			BSRV
3			CMX4	19			CK	35			D CLK	51			D CLK
4			CMX8	20			CK	36			FBS1	52			CK I
5			OSL1	21			CK	37			FBS2	53			S1
6			D CS	22			DMSS	38			CHGM	54			GND
7			WR	23			PN	39			TS11	55			S2
8			ACS	24			LCKO	40			GND	56			AS6
9			DO0	25			AS5	41			TS21	57			AS4
10			CFS A	26			AS3	42			INTR	58			AS2
11			CFS B	27			AS1	43			TS31	59			DTSE
12			CFS C	28			HDO	44			DO1	60			FLDT
13			CFS D	29			VDO	45			DO2	61			VDDH(5V)
14			CS IN	30			NESY	46			DO3	62			FWRE
15			AD0	31			FHB2	47			VDDH(5V)	63			DRAF
16			AD2	32			SCH	48			AD1	64			SLLM



PIN NO.	SYMBOL	DESCRIPTION
8	ACS	ADDRESS LINE ENABLE INPUT
15	AD0	ADDRESS DATA OUTPUT
48	AD1	ADDRESS DATA OUTPUT
49	AD3	ADDRESS DATA OUTPUT
27	AS1	PARALLEL DATA OUTPUT
26	AS3	PARALLEL DATA OUTPUT
57	AS4	PARALLEL DATA OUTPUT
25	AS5	PARALLEL DATA OUTPUT
56	AS6	PARALLEL DATA OUTPUT
50	BSRV	DATA OUT FLAG OUTPUT
11	CFSB	DEMODULATED COLOR FRAME OUTPUT
12	CFSC	DEMODULATED COLOR FRAME OUTPUT
38	CHGM	CHARACTER V POSITION GATE SIGNAL OUTPUT
17	CK	INTERNAL COUNTER CLOCK INPUT
20	CKIN	CLOCK INPUT
19	CKO	CLOCK OUTPUT (NEGATIVE-LOGIC)
1	CMX1	CHARACTER V POSITION SELECT INPUT
2	CMX2	CHARACTER V POSITION SELECT INPUT
3	CMX4	CHARACTER V POSITION SELECT INPUT
4	CMX8	CHARACTER V POSITION SELECT INPUT
6	DCS	COMPOSITE SYNC INPUT
14	DCLE	VITC READ CLOCK INPUT
15	DO0	DATA LINE ENABLE INPUT
22	DMSS	ASSIGNED BIT DATA SELECT INPUT
44	DO1	DATA OUT (NEGATIVE-LOGIC)
45	DO2	DATA OUT (NEGATIVE-LOGIC)
46	DO3	DATA OUT (NEGATIVE-LOGIC)
63	DRAF	VITC SYNCHRONIZE SIGNAL D OUTPUT
59	DTSE	VITC DATA SEARCH FLAG OUTPUT
36	FBS1	FIELD MARK POSITION SELECT 1 INPUT
37	FBS2	FIELD MARK POSITION SELECT 2 INPUT
35	FBS3	FIELD MARK POSITION SELECT 3 INPUT
31	FHB2	FIELD DATA OUTPUT
60	FLDT	FIELD DATA OUTPUT
62	FWRE	TAPE DIRECTION SIGNAL OUTPUT
28	HDO	HORIZONTAL SYNC DRIVE OUTPUT
42	INTR	INTERRUPT REQUEST INPUT
24	LCKO	LTC CLOCK OUTPUT
30	NESY	LOST-SYNC FLAG OUTPUT
5	OSL1	OUTPUT SIGNAL SELECT 1 INPUT
23	PN	POWER ON RESET INPUT
53	S1	SIGNAL FORMAT SELECT S1 INPUT
55	S2	SIGNAL FORMAT SELECT S2 INPUT
32	SCH	OUTPUT SIGNAL SCH
52	SKCI	SYSTEM CLOCK INPUT
21	SKCO	SYSTEM CLOCK OUTPUT
64	SLLM	READ SIZE SELECT INPUT
29	VDO	VERTICAL SYNC DRIVE OUTPUT
34	VDS	OUTPUT SIGNAL VDS
18	VITC	VITC SIGNAL INPUT
33	VITR	OUTPUT SIGNAL VITR
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
47	VDD	POWER LINE (+5V)
61	VDD	POWER LINE (+5V)
40	GND	GND LINE
54	GND	GND LINE
39	TS11	TEST INPUT
41	TS21	TEST INPUT
43	TS31	TEST INPUT

#1,2,3,4 CMX1 TO 8; CHARACTER V POSITION SELECT

CMX8	CMX4	CMX2	CMX1	INSERTION LINE (#38 CHGM IS H LEVEL)	
				NTSC	PAL/SECAM
0	0	0	0	---	---
0	0	0	1	---	284-303
0	0	1	0	---	596-615
0	0	1	1	---	264-283
0	0	1	1	---	576-595
0	1	0	0	---	244-263
0	1	0	1	---	556-575
0	1	1	0	---	224-243
0	1	1	1	---	536-555
0	1	1	1	---	204-223
0	1	1	1	---	516-535
0	1	1	1	---	496-515
0	1	1	1	---	164-183
1	0	0	0	---	144-163
1	0	0	1	---	456-475
1	0	0	1	---	124-143
1	0	1	0	---	104-123
1	0	1	1	---	416-435
1	0	1	1	---	84-103
1	1	0	0	---	396-415
1	1	0	1	---	64-83
1	1	1	0	---	376-395
1	1	1	1	---	44-63
1	1	1	1	---	356-375
1	1	1	1	---	24-43
1	1	1	1	---	336-355

#36,37,35 FBS1 TO FBS3; FIELD DATA SELECT

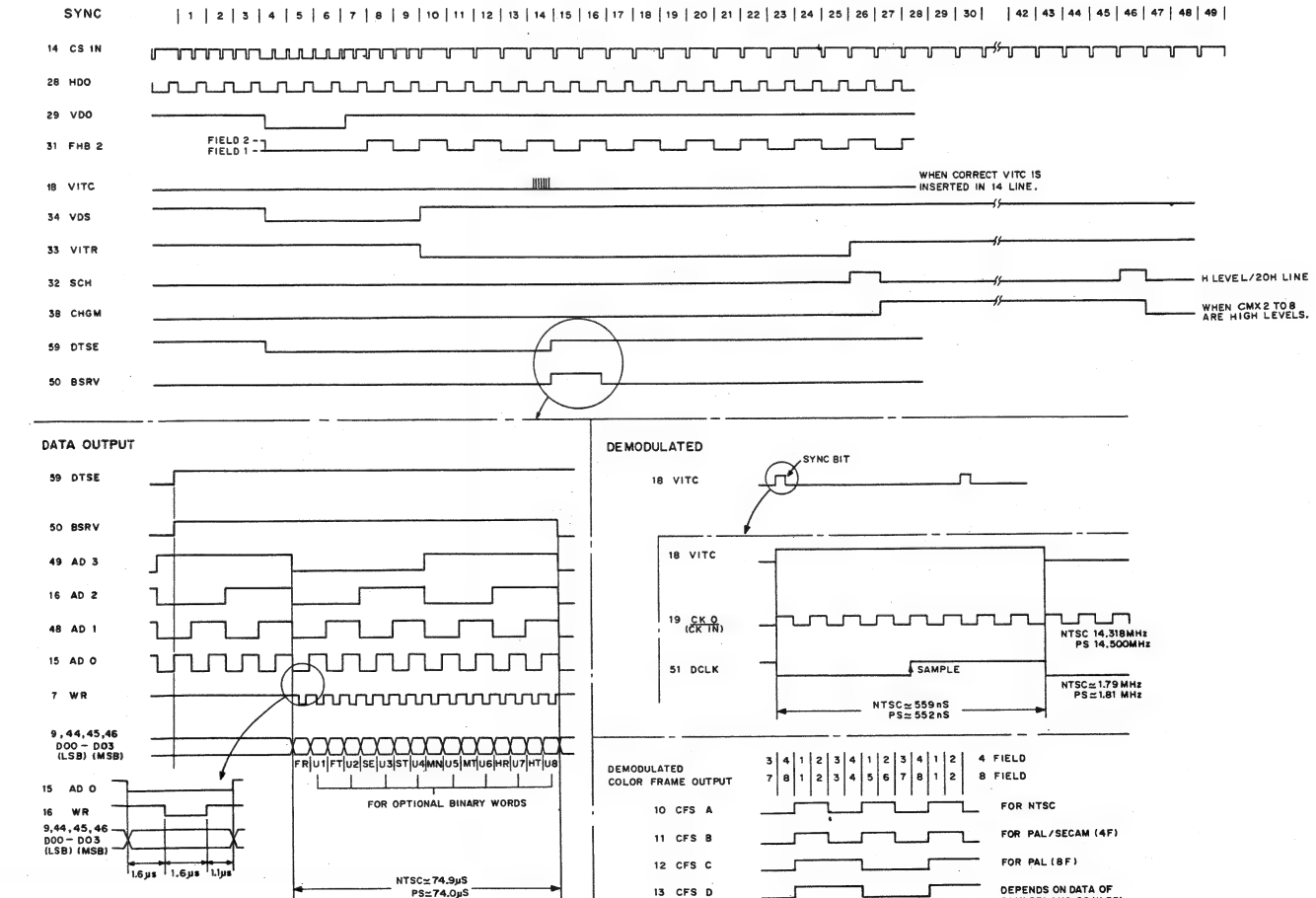
FBS3	FBS2	FBS1	#60 PLDT OUTPUT
0	0	0	AS1 (VITC BIT No.14)
0	0	1	AS2 (VITC BIT No.15)
0	1	0	AS3 (VITC BIT No.35)
0	1	1	AS4 (VITC BIT No.55)
1	0	0	AS5 (VITC BIT No.74)
1	0	1	AS6 (VITC BIT No.75)
1	1	0	---
1	1	1	---

#53,55 S1,S2; SIGNAL FORMAT SELECT

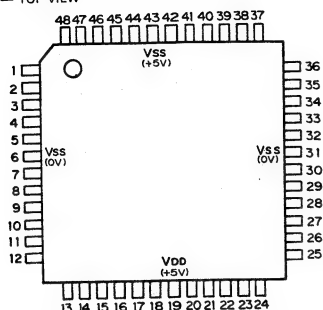
S2	S1	#13 CFSD FORMAT
0	0	UNSPECIFIED
0	1	NTSC NON DROP FRAME
1	1	NTSC DROP FRAME

0; LOW LEVEL
1; HIGH LEVEL

TIMING CHART



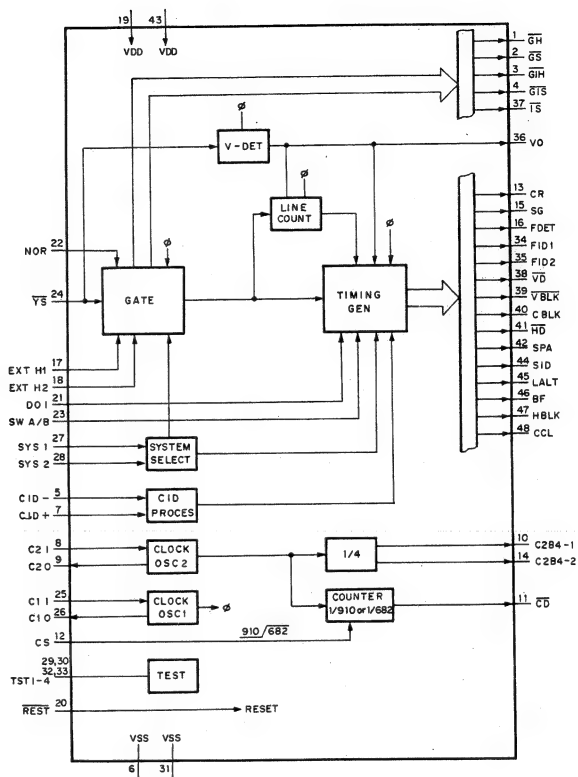
CX7993A (SONY) FLAT PACKAGE
C-MOS TIMING GENERATOR
— TOP VIEW —



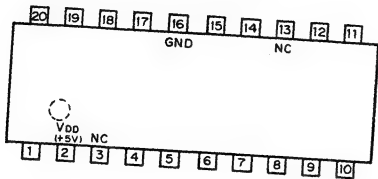
PIN ASSIGNMENT

PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1		O	GH	13	O	CR	25	O	C11	37	O	TS			
2		O	GS	14	O	C2B4-2	26	O	C10	38	O	VD			
3		O	GIH	15	O	SG	27	O	SYS 1	39	O	VBLK			
4		O	GIS	16	O	FDET	28	O	SYS 2	40	O	CBLK			
5	O		CID -	17	O	EXTH 1	29		T1	41	O	RD			
6			VSS	18	O	EXTH 2	30		T2	42	O	SPA			
7	O		CID +	19		VDD	31		VSS	43		VDD			
8	O		C21	20	O	RST	32		T3	44	O	SID			
9	O		C20	21	O	DOI	33		T4	45	O	LALT			
10	O		C2B4-1	22	O	NOR	34	O	FID1	46	O	BF			
11	O		CD	23	O	SW A/B	35	O	FID2	47	O	HBLK			
12	O		CS	24	O	YS	36	O	VO	48	O	CCL			

22	NOR	GH	1	BF	BURST FLAG OUT
24	YS	GS	2	C11	CLOCK 1 IN
		GIH	3	C10	CLOCK 1 OUT
17	EXTH 1	GIS	4	C2B4-1	CLOCK 2/4-1
18	EXTH 2	IS	5	C2B4-2	CLOCK 2/4-2
21	DOI		6	C21	CLOCK 2 IN
23	SW A/B	VO	36	C20	CLOCK 2 OUT
27	SYS 1	CR	13	CBLK	CHROMA BLANKING PULSE OUT
28	SYS 2	SG	15	CCL	CHROMA CLAMP
		FDET	16	CD	COUNT DOWN SIGNAL
5	CID(-)	FID1	34	CID+,CID-	CHROMA ID +,- IN
7	CID(+)	FID2	35	CR	CORRECT SYNC OUT
		VD	38	CS	COUNTER SELECT IN
8	C21	VBLK	39	EXTH 1	EXTERNAL H-1
9	C20	CBLK	40	EXTH 2	EXTERNAL H-2
		HD	42	FDET	FRAME DET OUT
25	C11	SPA	44	FID1 FID2	FRAME ID 1,2 OUT
26	C10	SID	45	GH	GATED H OUT
		LALT	46	GIH	GATE/INTERPOLATED H OUT
12	CS	BF	46	GIS	GATE/INTERPOLATED SYNC OUT
		HBLK	47	GS	GATED SYNC OUT
29	TST 1	CCL	48	HBLK	H-BLANKING PULSE OUT
30	TST 2			HD	HD OUT
32	TST 3	C2B4-1	10	IS	INTERPOLATED SYNC OUT
33	TST 4	C2B4-2	14	LALT	LINE ALTERNATE OUT
20	RST	CD	11	NOR	MODE SELECT(NORMAL/SERCH) IN
				RST	RESET IN
				SG	SYNC GATE OUT
				SID	SECAM ID OUT
				SPA	SECAM PHASE ALTERNATE OUT
				SW A/B	Y SWITCHING PULSE A/B IN
				SYS1,SYS2	SYSTEM SELECT 1,2 IN
				TST1,TST2	TEST1,TEST2
				VBLK	V-BLANKING PULSE OUT
				VD	VD OUT
				VO	V OUT
				YS	Y SYNC OUT

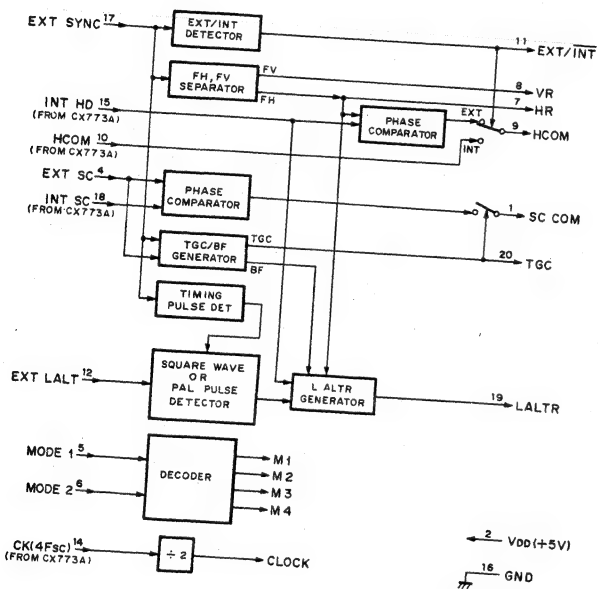


CX7998 (SONY) FLAT PACKAGE
C-MOS GENLOCK DRIVER FOR CX773A
— TOP VIEW —



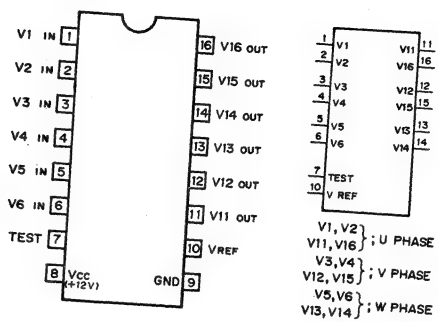
INPUTS	MODE 1	MODE 2	EXT LOCK MODE
0	0	M 1	PAL:VBS
1	0	M 2	PAL-M:VBS
0	1	M 3	PAL:VS/SC/LALT
1	1	M 4	SECAM:VS/SC/LALT
			NTSC:VBS
			NTSC:VS/SC
			PAL-M:VS/SC/LALT

0; LOW LEVEL
1; HIGH LEVEL



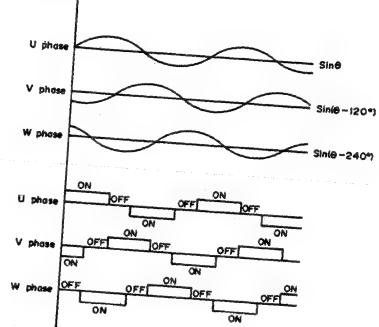
2 VDD(+5V)
16 GND

CX877 (SONY)
MOTOR DRIVER
— TOP VIEW —

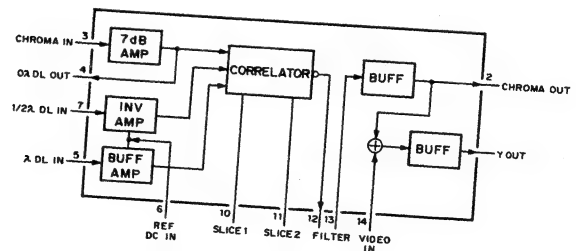
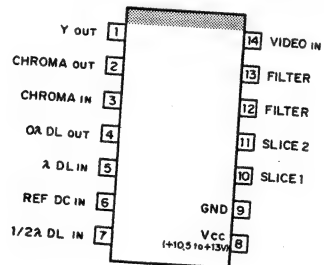


V1, V2; U PHASE
V11, V16; U PHASE
V3, V4; V PHASE
V12, V13; V PHASE
V5, V6; W PHASE
V13, V14; W PHASE

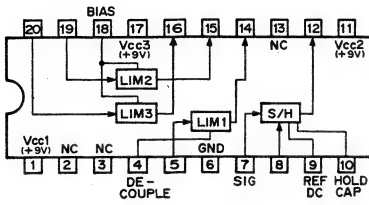
TIMING CHART



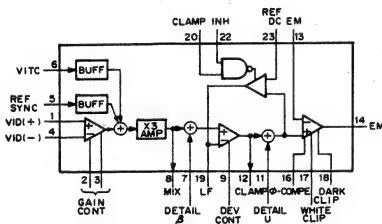
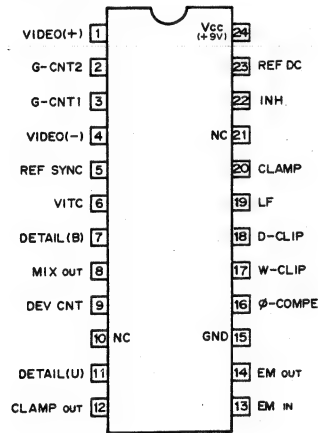
CXA1020P (SONY)
CHROMA CROSS-COLOR NOISE REDUCER/EDGE COMPENSATOR
— TOP VIEW —



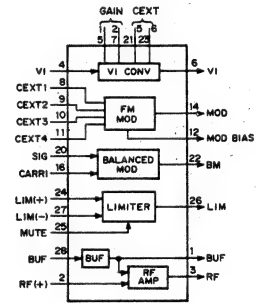
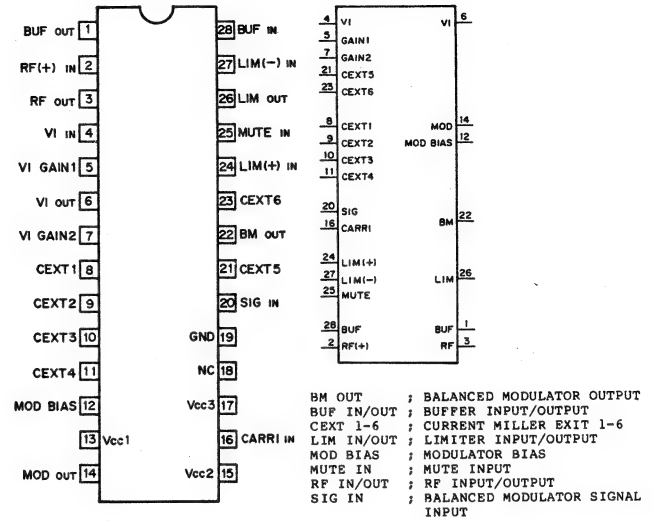
CXA1039M (SONY) PLAT PACKAGE
DETAIL ENHANCER LIMITER
— TOP VIEW —



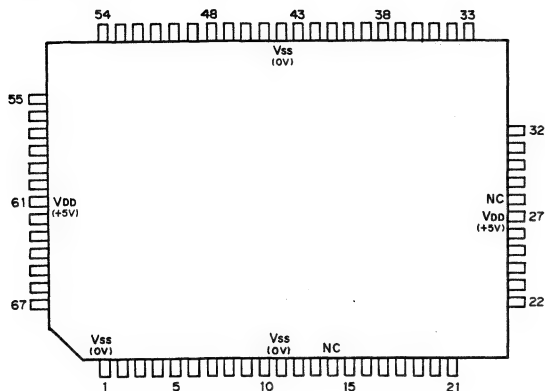
CXA1040M (SONY) MINI FLAT PACKAGE
VIDEO SIGNAL PROCESSOR
— TOP VIEW —



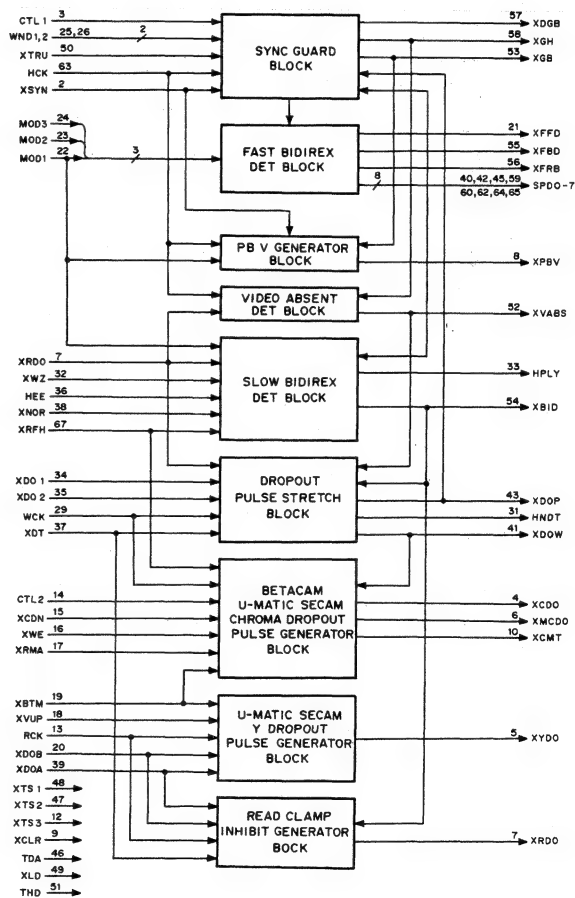
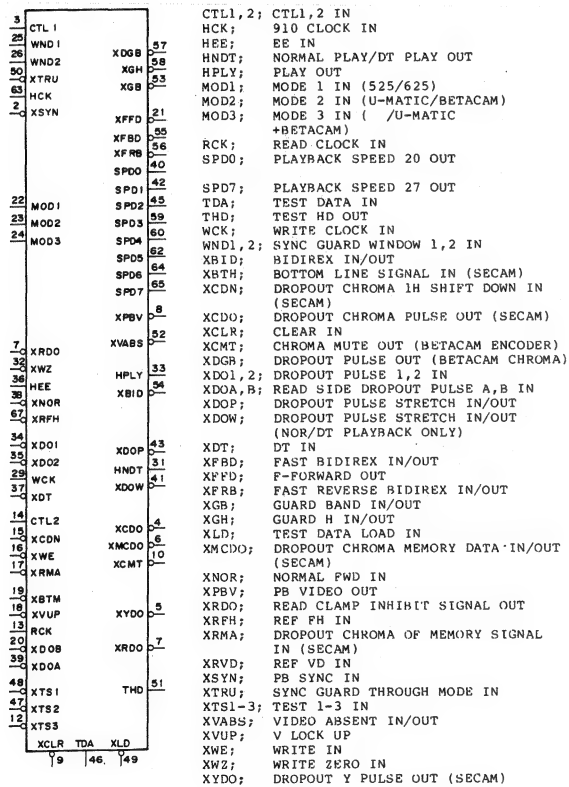
CXA1041M (SONY) MINI FLAT PACKAGE
FM MODULATOR
— TOP VIEW —



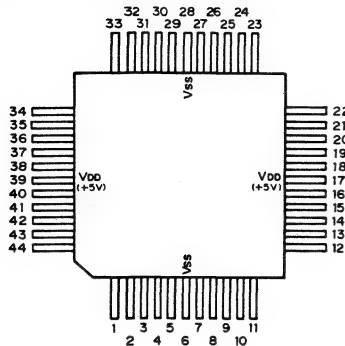
CXD1023AQ (SONY) FLAT PACKAGE
C-MOS TBC
— TOP VIEW —



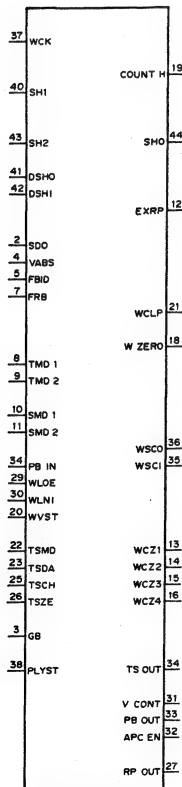
PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1			VSS	21			XFFD	41			XDOW	61			VDD
2			XSYN	22			MOD1	42			SPD6	62			SPD2
3			CTL1	23			MOD2	43			XDOP	63			HCK
4			XCDO	24			MOD3	44			VSS	64			SPD1
5			XYDO	25			WND1	45			SPD5	65			SPD0
6			XMCD0	26			WND2	46			TDA	66			XRVD
7			XRDO	27			VDD	47			XTS1	67			XRFD
8			XPBV	28			WCK	48			XTS2				
9			XCLR	29			—	49			XLD				
10			XCMT	30			—	50			XTRU				
11			VSS	31			HNDT	51			THD				
12			XTS3	32			XWZ	52			XVABS				
13			RCK	33			HPLY	53			XGB				
14			CTL2	34			XDO1	54			XBID				
15			XCDN	35			XDO2	55			XFRD				
16			XWE	36			HEE	56			XFRB				
17			XRMA	37			XDT	57			XDGB				
18			XVUP	38			XNOR	58			XGH				
19			XBTH	39			XDOA	59			SPD4				
20			XDOB	40			SPD7	60			SPD3				



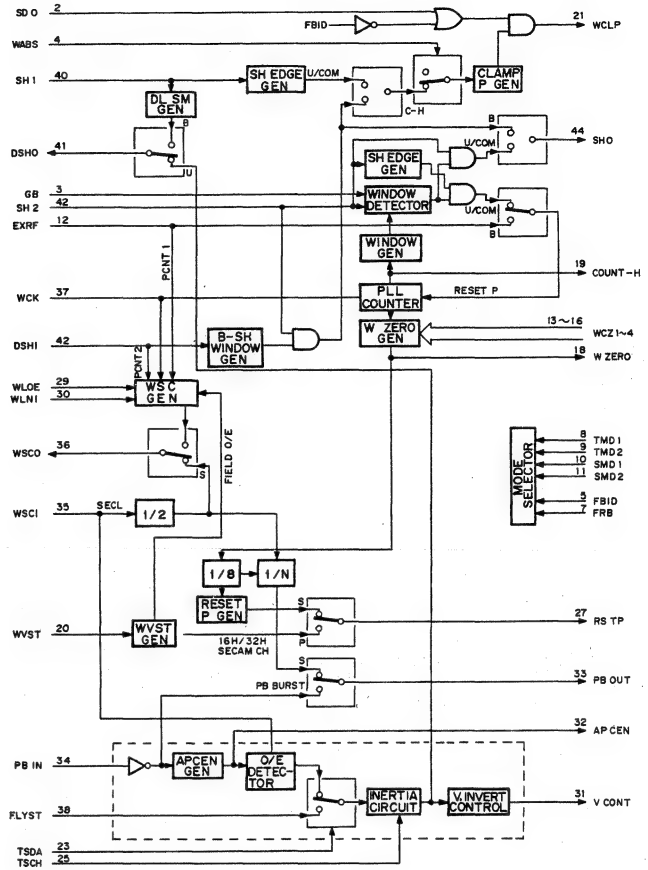
CXD1045Q (SONY)
C-MOS PLL COUNTER FOR TBC (WRITE CLOCK)
— TOP VIEW —



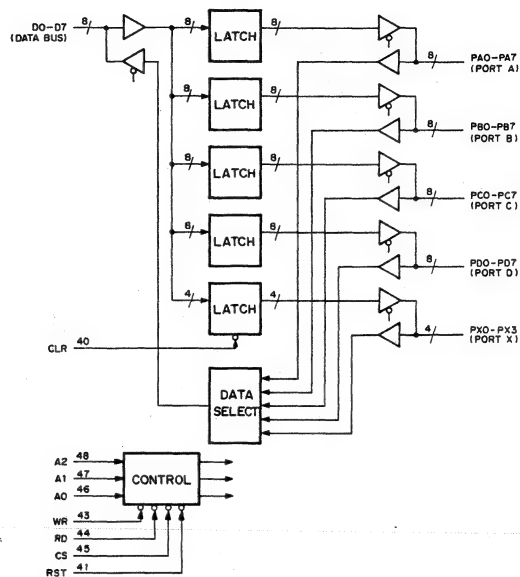
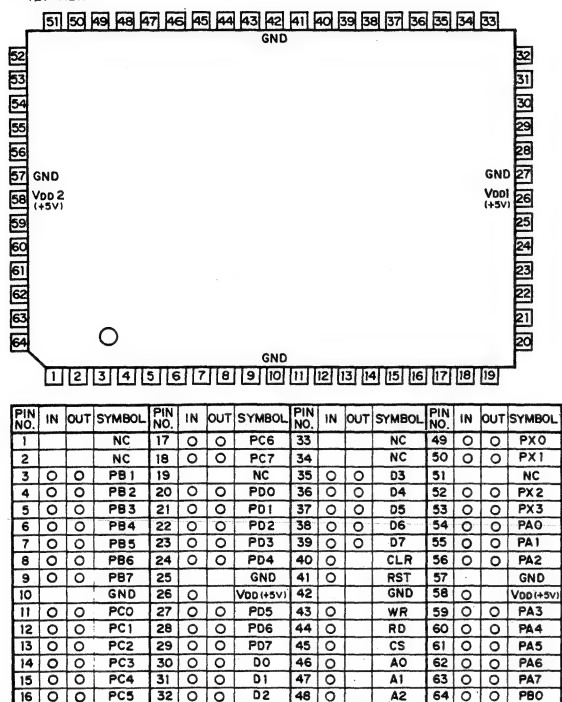
PIN NO./OUT	SYMBOL	PIN NO./OUT	SYMBOL	PIN NO./OUT	SYMBOL	PIN NO./OUT	SYMBOL				
1	I	Vss2	12	I	EXRP	23	I	TSDA	34	I	PBIN
2	I	SDO	13	I	WCZ1	24	I	TSOUT	35	I	WSC1
3	I	GB	14	I	WCZ2	25	I	TSCH	36	O	WSC0
4	I	VABS	15	I	WCZ3	26	I	TSZE	37	I	WCK
5	I	FBID	16	I	WCZ4	27	O	RPOUT	38	I	PLYST
6	I	Vss	17	—	Vss	28	—	Vss	39	—	Vss
7	I	FRB	18	O	WZERO	29	I	WLOE	40	I	SH1
8	I	TMD 1	19	O	COUNT H	30	I	WLNI	41	O	DSHO
9	I	TMD 2	20	I	WVST	31	O	V CONT	42	I	DSHI
10	I	SMD 1	21	O	WCLP	32	O	APC EN	43	I	SH2
11	I	SMD 2	22	I	TSMD	33	O	PBOUT	44	O	SHO



APC EN ; APC ENABLE
COUNT H ; COUNTER H
DSHI ; DELAYED SH IN
DSHO ; DELAYED SH OUT
EXRP ; EXT RESET PULSE
FBID ; FAST BIDIREX
FRB ; FAST REVERSE BIDIREX
GB ; GATED H
PB IN ; PB BURST IN
PB OUT ; PB BURST OUT
PLYST ; PLAY STATUS
RP OUT ; RESET PULSE OUT
SDO ; STRETCHED DOROP OUT
SHO ; SELECTED H OUT
SH1 ; SELECTED H1
SH2 ; SELECTED H2
SMD1 ; S MODE 1
SMD2 ; S MODE 2
TMD1 ; T MODE 1
TMD2 ; T MODE 2
TSCH ; TEST COUNTER H
TSDA ; TEST DATA IN
TSMD ; TEST MODE
TSOUT ; TEST OUT
TSZE ; TEST W ZERO
VABS ; VIDEO ABSENT
V CONT ; V AXIS CONTROL
WCK ; WRITE CLOCK
WCLP ; WRITE CLAMP PULSE
WCZ1 ; WRITE ZERO CONTROL 1
WCZ2 ; WRITE ZERO CONTROL 2
WCZ3 ; WRITE ZERO CONTROL 3
WCZ4 ; WRITE ZERO CONTROL 4
WLNI ; WRITE LINE N/I
WLOE ; WRITE LINE O/E
WSC0 ; WRITE SC IN
WSC1 ; WRITE SC OUT
WVST ; WRITE V SET
WZERO ; WRITE ZERO

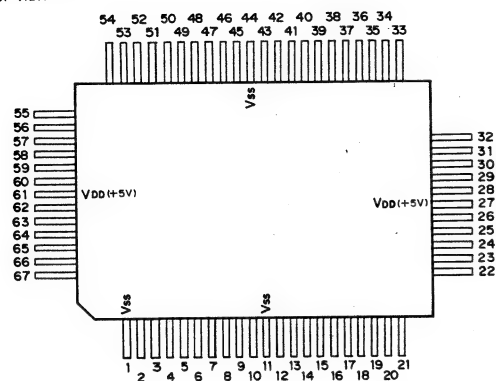


CXD1095Q (SONY) FLAT PACKAGE
C-MOS I/O PORT EXPANDER
— TOP VIEW —



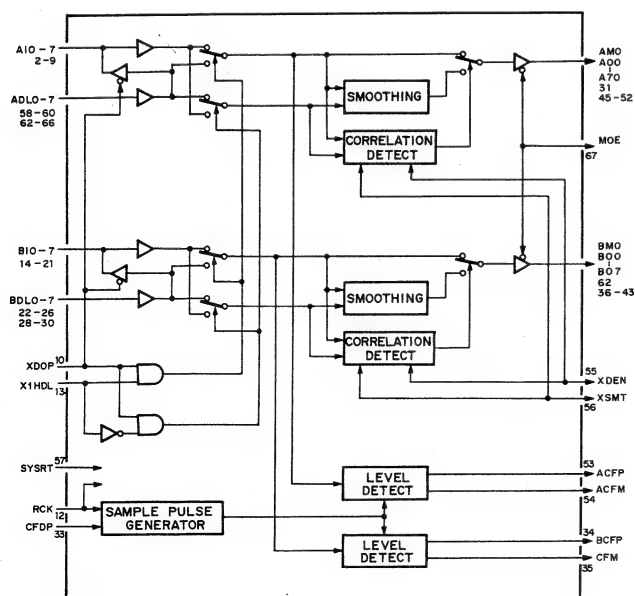
30	DO	PA0	54	CS	RD	WR	A2	A1	A0	MODE
31	D1	PA1	55	0	0	1	0	0	0	PORT A → DATA BUS
32	D2	PA2	56	0	0	1	0	0	1	PORT B → DATA BUS
33	D3	PA3	59	0	0	1	0	1	0	PORT C → DATA BUS
34	D4	PA4	60	0	0	1	0	1	1	PORT D → DATA BUS
35	D5	PA5	61	0	0	1	1	0	0	PORT X → DATA BUS
36	D6	PA6	62	0	0	1	1	0	1	—
37	D7	PA7	63	0	0	1	1	1	0	—
38	PX0	PB0	64	0	0	1	1	1	1	—
39	PX1	PB1	3	0	1	0	0	0	0	DATA BUS → PORT A
40	PX2	PB2	4	0	1	0	0	0	1	DATA BUS → PORT B
41	PX3	PB3	5	0	1	0	0	1	0	DATA BUS → PORT C
42		PB4	6	0	1	0	0	1	1	DATA BUS → PORT D
43		PB5	7	0	1	0	0	1	1	DATA BUS → PORT X
44		PB6	8	0	1	0	1	0	0	DATA BUS → PORT X
45		PB7	9	0	1	0	1	0	1	—
46		PC0	11	0	1	0	1	1	0	DATA BUS → CTL REG. 1
47		PC1	12	0	1	0	1	1	1	DATA BUS → CTL REG. 2
48		PC2	13	1	X	X	X	X	X	DATA BUS; HI-Z
49		PC3	14	O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE HI-Z, HIGH IMPEDANCE						
50		PC4	15							
51		PC5	16							
52		PC6	17							
53		PC7	18							
54		PDO	20	DO-D7; DATA BUS INPUTS/OUTPUTS CS; CHIP SELECT INPUT RD; READ STROBE INPUT WR; WRITE STROBE INPUT AO-A2; ADDRESS INPUT RST; RESET INPUT CLR; CLEAR INPUT						
55		PD1	21							
56		PD2	22							
57		PD3	23							
58		PD4	24							
59		PD5	27							
60		PD6	28							
61		PD7	29							
62		PA0-PA7		PA0-PA7; PORT A INPUTS/OUTPUTS						
63		PB0-PB7		PB0-PB7; PORT B INPUTS/OUTPUTS						
64		PC0-PC7		PC0-PC7; PORT C INPUTS/OUTPUTS						
65		PDO-PD7		PDO-PD7; PORT D INPUTS/OUTPUTS						
66		PX0-PX3		PX0-PX3; PORT X INPUTS/OUTPUTS						

CXD1131Q (SONY)
C-MOS GATE ARRAY
— TOP VIEW —

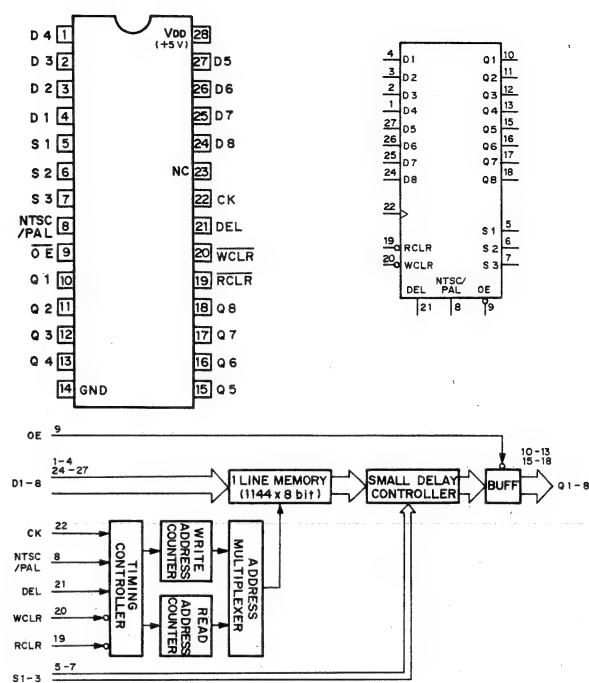


PIN NO	I/O	SYMBOL	PIN NO	I/O	SYMBOL	PIN NO	I/O	SYMBOL	PIN NO	I/O	SYMBOL
1	—	Vss	18	I	BI 3	35	O	BCFM	52	O	ACFP
2	I	A17	19	I	BI 2	36	O	BO 0	53	O	ACFP
3	I	A16	20	I	BI 1	37	O	BO 1	54	O	ACFM
4	I	A15	21	I	BI 0	38	O	BO 2	55	I	XDEN
5	I	A14	22	I	BDL 0	39	O	BO 3	56	I	XSMT
6	I	A13	23	I	BDL 1	40	O	BO 4	57	I	SYSRT
7	I	A12	24	I	BDL 2	41	O	BO 5	58	I	ADL 7
8	I	A11	25	I	BDL 3	42	O	BO 6	59	I	ADL 6
9	I	A10	26	I	BDL 4	43	O	BO 7	60	I	ADL 5
10	I	XDOP	27	—	VDD	44	—	Vss	61	—	VDD
11	—	Vss	28	I	BDL 5	45	O	A00	62	I	ADL 4
12	I	RCK	29	I	BDL 6	46	O	A10	63	I	ADL 3
13	I	X1HDL	30	I	BDL 7	47	O	A20	64	I	ADL 2
14	I	BI7	31	O	AMO	48	O	A30	65	I	ADL 1
15	I	BI6	32	O	BMO	49	O	A40	66	I	ADLO
16	I	BI5	33	I	CFDP	50	O	A50	67	I	MOE
17	I	BI4	34	O	BCFP	51	O	A60			

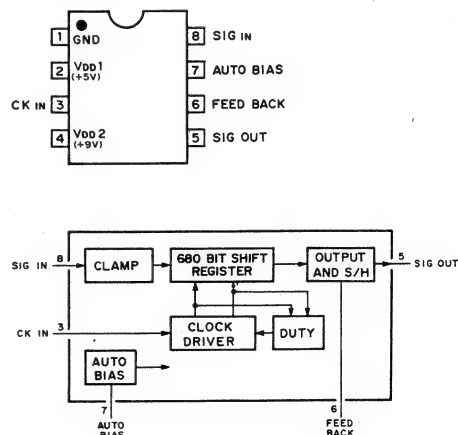
ACFM ;A-ch COLOR FRAME ID MINUS
ACFP ;A-ch COLOR FRAME ID PLUS
ADLO 7 ;A-ch 1H DELAYED INPUT DATA 2⁰~2⁷
AIO 7 ;A-ch INPUT DATA 2⁰~2⁷
AMO ;A-ch OUTPUT DATA 2
A00 A70 ;A-ch OUTPUT DATA 2⁰~2⁷
BCFM ;B-ch COLOR FRAME ID MINUS
BCFP ;B-ch COLOR FRAME ID PLUS
BDLO 7 ;B-ch 1H DELAYED INPUT DATA 2⁰~2⁷
BIO 7 ;B-ch INPUT DATA 2⁰~2⁷
BOO 7 ;B-ch OUTPUT DATA 2⁰~2⁷
BMO ;B-ch OUTPUT DATA 2
CFDP ;COLOR FRAME ID DETECT PULSE
HOE ;H; OUTPUT ENABLE
RCK ;READ CK
SYSRT ;SYSTEM RESET
X DEN ;CORRELATION DETECT ENABLE
X DOP ;DROP OUT PULSE
X SMT ;SMOOTHING
X1HDL ;1HDL SELECT



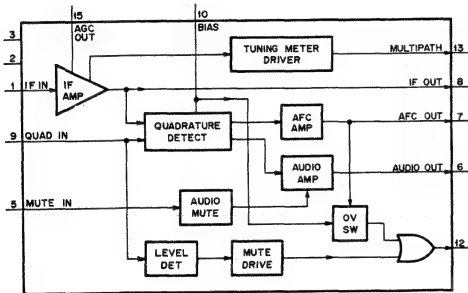
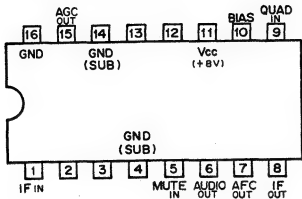
CXK1202S (SONY)
C-MOS DIGITAL DELAY LINE
— TOP VIEW —



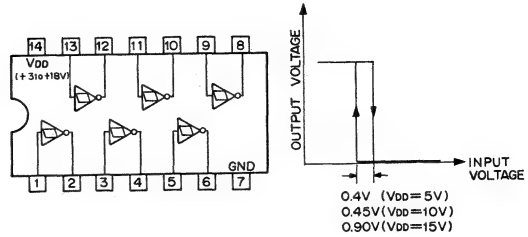
CXL5001M (SONY) FLAT PACKAGE
C-MOS CCD FOR NTSC 1H DELAY LINE
— TOP VIEW —



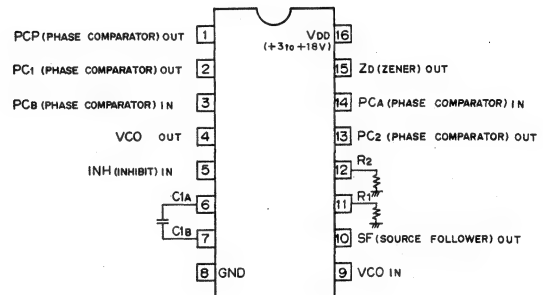
HA12411 (HITACHI)
FM IF AMPLIFIER
QUADRATURE DETECT
AUDIO AMPLIFIER
MUTING
AFC
AGC
TUNING METER DRIVER



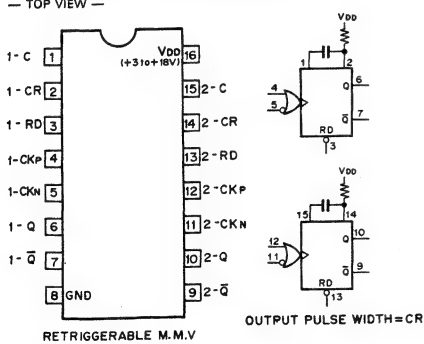
HD14584BFP (HITACHI) FLAT PACKAGE
C-MOS SCHMITT TRIGGER INVERTER
— TOP VIEW —



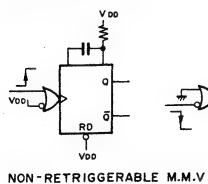
HD14046BP (HITACHI)
MC14046BCP (MOTOROLA)
C-MOS PHASE LOCKED LOOP
— TOP VIEW —



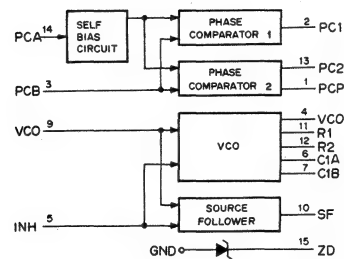
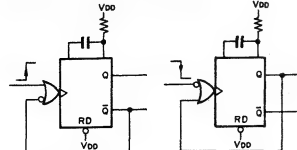
HD14538BFP (HITACHI) FLAT PACKAGE
MC14538BCP (MOTOROLA)
TC4538BF (TOSHIBA) FLAT PACKAGE
TC4538BP (TOSHIBA)
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE
MONOSTABLE MULTIVIBRATOR
— TOP VIEW —



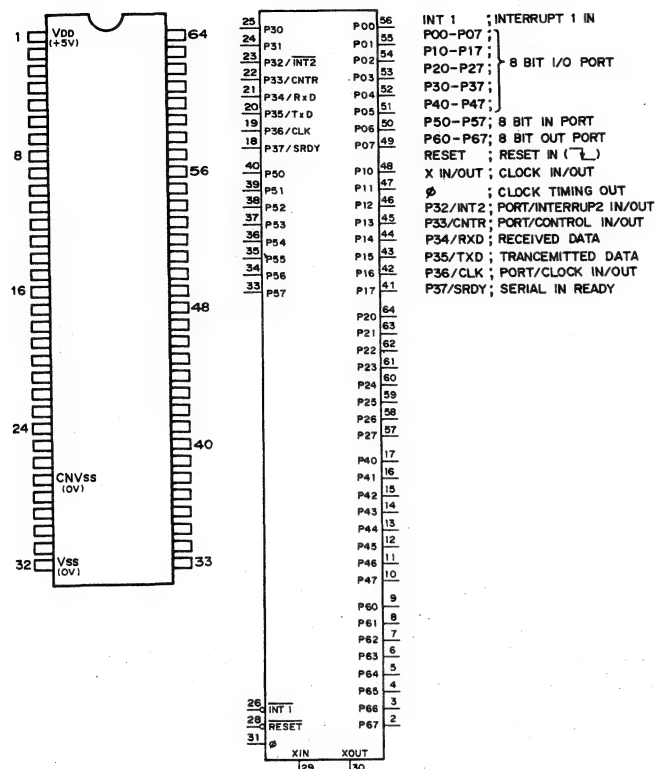
RETRIGGERABLE M.M.V



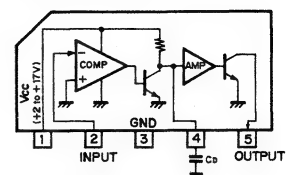
NON-RETRIGGERABLE M.M.V



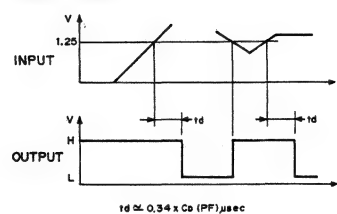
M50747-XXXSP
C-MOS PROCESS 8-BIT ONE CHIP MICROCOMPUTER
— TOP VIEW —



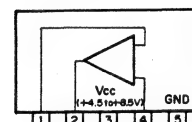
M51958BL (MITSUBISHI)
VOLTAGE DETECT DELAY
— PRINTED SIDE VIEW —



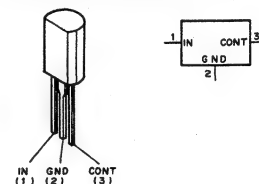
TIMING CHART



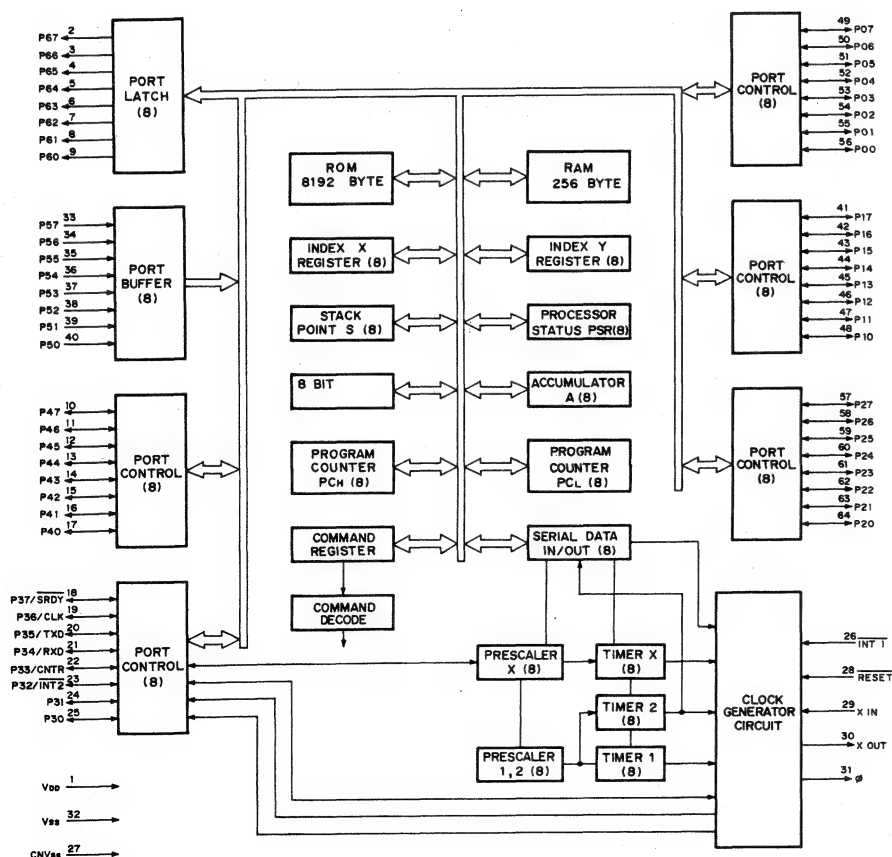
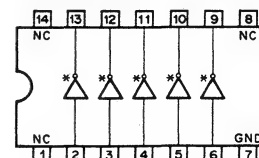
M5215L (MUTSUBISHI)
FM IF AMPLIFIER
— REAR VIEW —



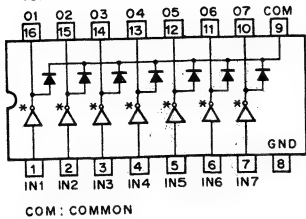
M5236L (MITSUBISHI)
ADJUSTABLE VOLTAGE REGULATOR



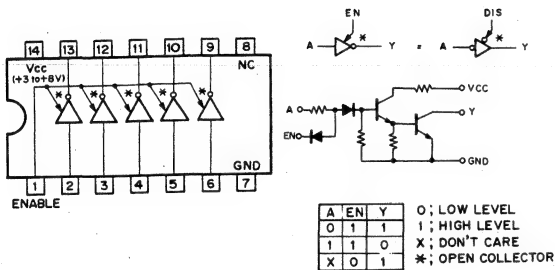
M54516P (MITSUBISHI)
INVERTER WITH OPEN-COLLECTOR
(DARLINGTON-CONNECTED TRANSISTOR ARRAY)
— TOP VIEW —



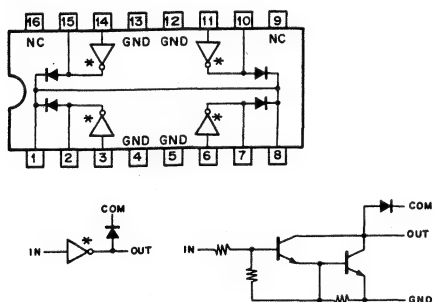
M54523P (MITSUBISHI)
BIPOLAR TRANSISTOR ARRAY WITH OPEN COLLECTOR
— TOP VIEW —



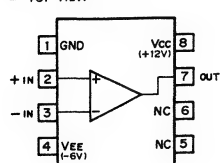
M54529AP (MITSUBISHI)
TRANSISTOR ARRAY
— TOP VIEW —



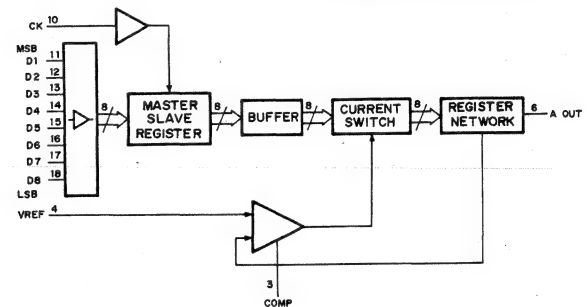
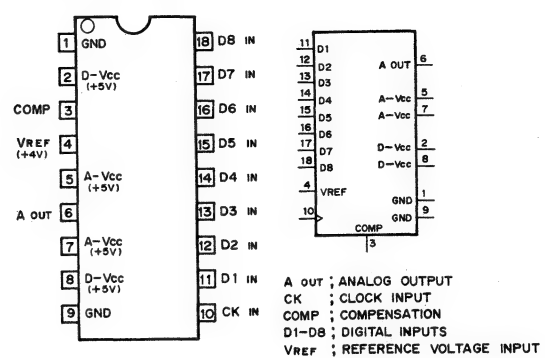
M54532P (MITSUBISHI)
DARLINGTON TRANSISTOR ARRAY WITH CLAMP DIODE
— TOP VIEW —



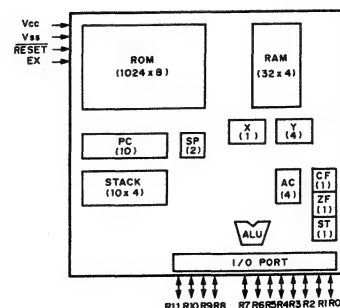
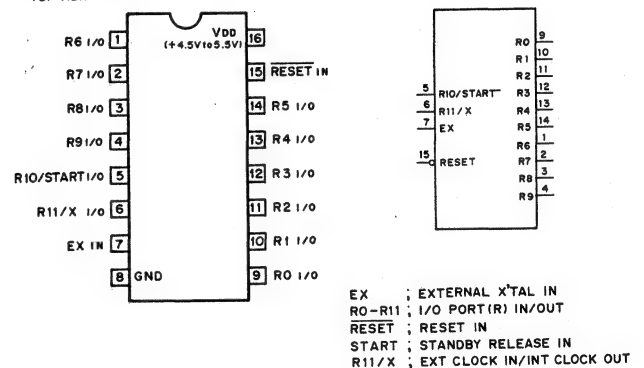
MB4002PF (FUJITSU) FLAT PACKAGE
VOLTAGE COMPARATOR
— TOP VIEW —



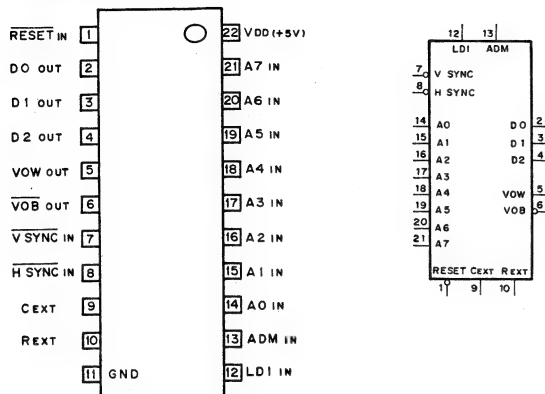
MB40778P (FUJITSU)
8-BIT VIDEO D/A CONVERTER
— TOP VIEW —



MB88201H-539N (FUJITSU)
C-MOS 4 BIT MICROCOMPUTER
— TOP VIEW —

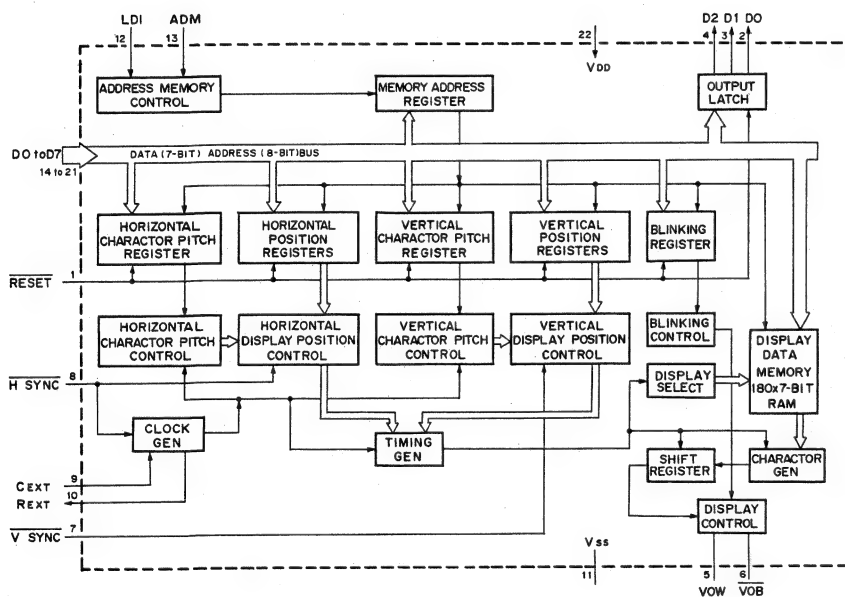


MB88303 (FUJITSU)
N-MOS PROGRAMMABLE TV DISPLAY CONTROLLER
— TOP VIEW —

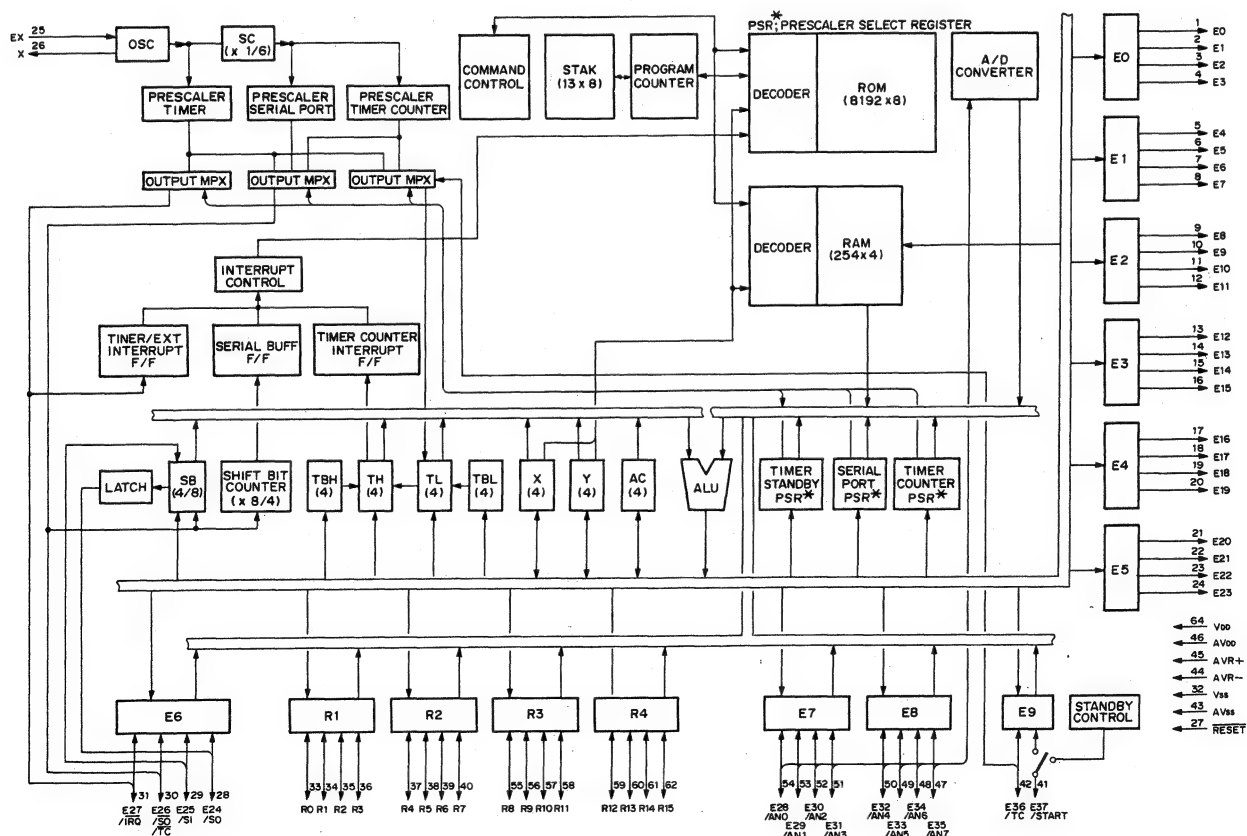
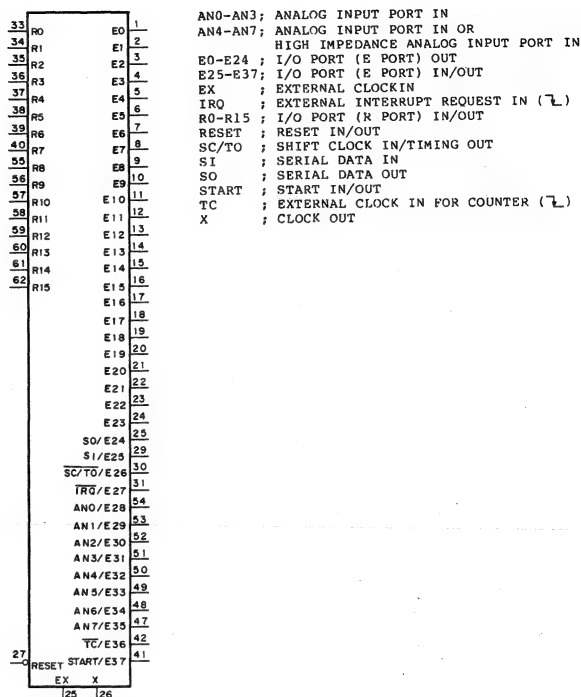
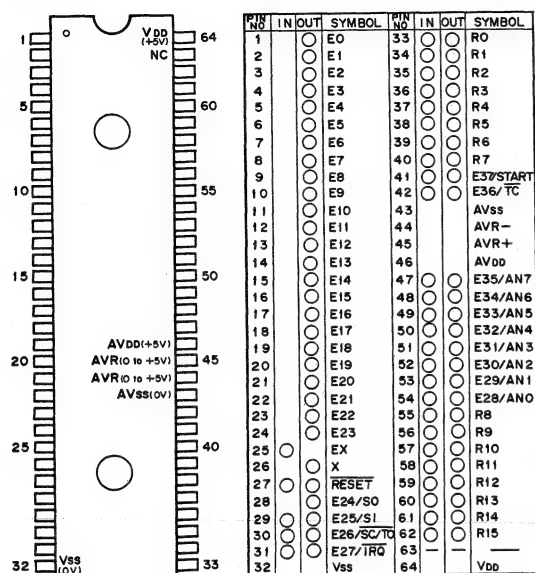


b3-b0	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
b5-b4	00	A	B	C	D	E	F	G	H	I	J	K	L	M	.	BLANK
01	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	:		(
10	0	1	2	3	4	5	6	7	8	9	?	!	'	.	BACK)
11	↑	↓	←	→	+	-	*	/	=	&						

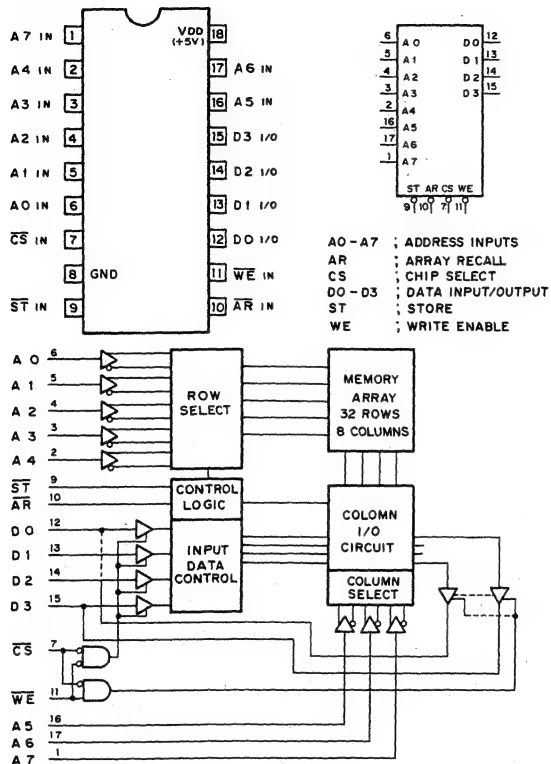
ADM : ADDRESS INCREMENT MODE
A0 to A7 : ADDRESS INPUT
D0 to D2 : DATA OUTPUT
CEXT : EXT CAPACITOR FOR OSC
LDI : LOAD DATA AND INSTRUCTION
VOB : VIDEO BLACK OUT
VOW : VIDEO WHITE OUT
REXT : EXT RESISTOR FOR OSC



MB88515B-280M (FUJITSU)
C-MOS 4 BIT ONE-CHIP MICROCOMPUTER WITH MULTI I/O AND 8 BIT A/D CONVERTER
— TOP VIEW —



MBM2212-20P (FUJITSU) (ACCESS TIME = 200 nS)
N-MOS 1024 (256x4)-BIT NONVOLATILE STATIC RAM
— TOP VIEW —



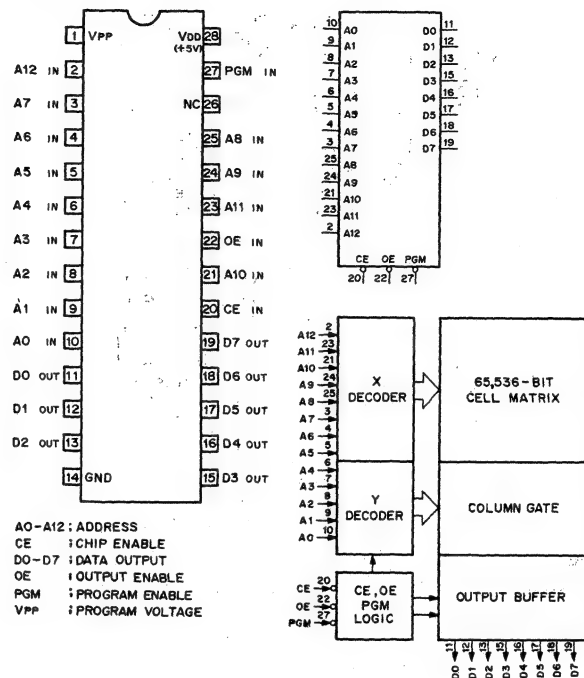
INPUTS				I/O	MODE
CS	WE	AR	ST		
1	X	1	1	HI-Z	NOT SELECTED
0	1	1	1	OUTPUT DATA	RAM READ
0	0	1	1	INPUT DATA 1	RAM WRITE "1"
0	0	1	1	INPUT DATA 0	RAM WRITE "0"
X	1	0	1	HI-Z	ARRAY RECALL
1	X	0	1	HI-Z	ARRAY RECALL
X	1	1	0	HI-Z	NONVOLATILE STORING
1	X	1	0	HI-Z	NONVOLATILE STORING

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

An	CE	OE	Vpp	Dn	FUNCTION
An	0	0	+5V	D OUT	READ
An	0	1	+5V	HI-Z	OUTPUT DISABLE
X	1	X	+5V	HI-Z	STANDBY
An	0	1	+21V	D IN	PGM
An	0	0	+21V	D OUT	PGM VERIFY
X	1	X	+21V	HI-Z	PGM INH

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

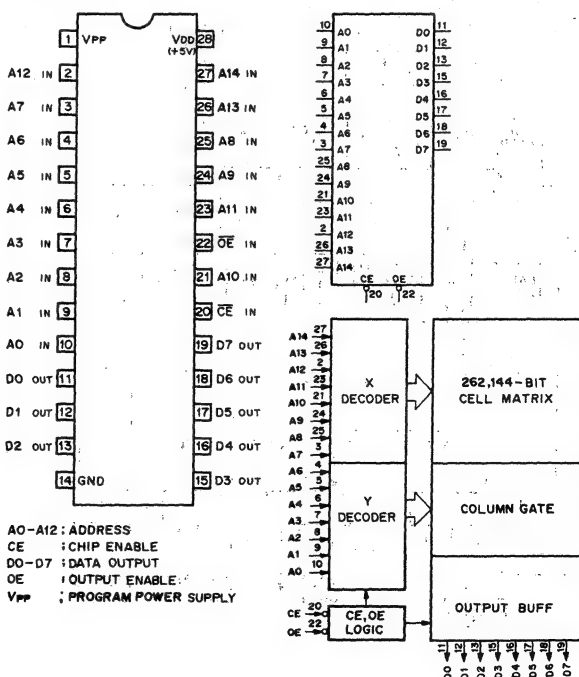
MBM2764-25 (FUJITSU) (ACCESS TIME = 250 nS)
N-MOS 64K (8Kx8) ERASABLE PROM WITH 3-STATE OUTPUTS
— TOP VIEW —



An	CE	OE	PGM	Vpp	Dn	FUNCTION
An	0	0	1	+5V	DENTERED	READ
An	0	1	1	+5V	HI-Z	OUTPUT DISABLE
An	0	0	0	+5V	HI-Z	OUTPUT DISABLE
X	1	X	X	+5V	HI-Z	STANDBY
An	0	X	1	+21V	D IN	PGM
An	0	0	1	+21V	DENTERED	PGM VERIFY
X	1	X	X	+21V	HI-Z	PGM INH

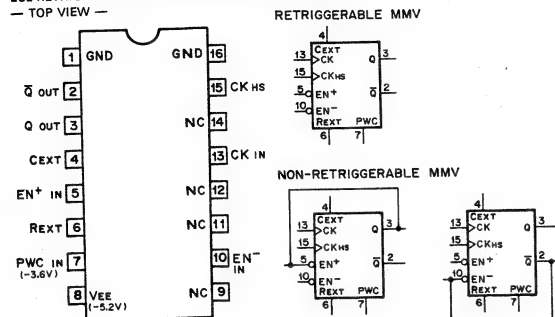
0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

MBM27C256-25 (FUJITSU) (ACCESS TIME = 250 nS)
C-MOS 256K (32Kx8) ERASABLE PROM WITH 3-STATE OUTPUTS
— TOP VIEW —



A0-A12: ADDRESS
CE: CHIP ENABLE
D0-D7: DATA OUTPUT
OE: OUTPUT ENABLE
Vpp: PROGRAM POWER SUPPLY

MC10198L (MOTOROLA)
ECL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR



CK : CLOCK TRIGGER INPUT
CKHS: HIGH-SPEED CLOCK TRIGGER INPUT
EN+ : TRIGGER POSITIVE ENABLE
EN- : TRIGGER NEGATIVE ENABLE
PWC : EXTERNAL PULSE WIDTH CONTROL

FUNCTION TABLE

EN+ EN-	TRIG. SLOPE
0 0	0
0 1	1
1 0	0
1 1	DISABLE

0; LOW LEVEL
1; HIGH LEVEL

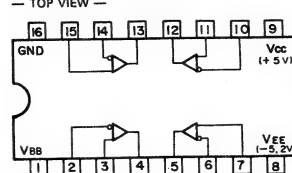
OUTPUT PULSE WIDTH: PWQ
 $PWQ = 1.19 \cdot CEXT (REXT + 284)$

WHERE

PWQ = SEC
CEXT = FARADS
REXT = OHMS
VEE = -5.2V
PWC = -3.6V

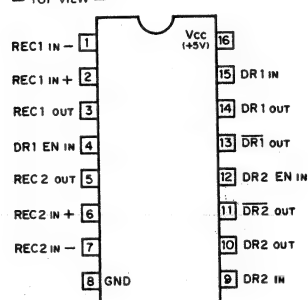
NOTE: SELECT REXT RANGING FROM ZERO TO 16K OHMS.
SELECT CEXT GREATER THAN 20PF.

MC10H125M (MOTOROLA) FLAT PACKAGE
ECL ECL-TO-TTL TRANSLATOR



MC34051P (MOTOROLA)
RS-422 DRIVER/RECEIVER

— TOP VIEW —



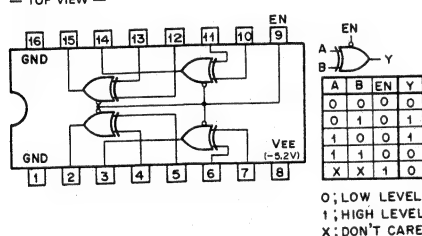
DREN	MODE
0	DISABLE
1	ENABLE

0; LOW LEVEL
1; HIGH LEVEL

DR : DRIVER
DR EN : DRIVER ENABLE
REC : RECEIVER

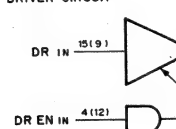
MC10H113M (MOTOROLA) FLAT PACKAGE
ECL EXCLUSIVE OR GATE

— TOP VIEW —

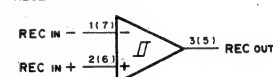


0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

DRIVER CIRCUIT

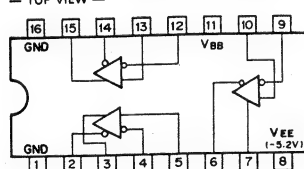


RECEIVER CIRCUIT

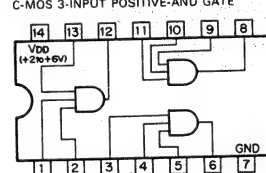


MC10H116M (MOTOROLA) FLAT PACKAGE
ECL DIFFERENTIAL OR/NOR LINE RECEIVER

— TOP VIEW —



MC74HC11F (MOTOROLA) FLAT PACKAGE
TC74HC11P (TOSHIBA)
C-MOS 3-INPUT POSITIVE-AND GATE



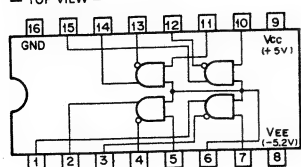
$$Y = A \cdot B \cdot C = \overline{A + B + C}$$

A	B	C	Y
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

0; LOW LEVEL
1; HIGH LEVEL

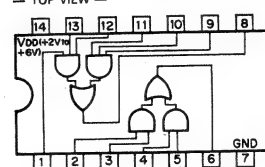
MC10H124M (MOTOROLA) FLAT PACKAGE
ECL TTL-TO-ECL TRANSLATOR

— TOP VIEW —



MC74HC58N (MOTOROLA)
CMOS 2-WIDE 2-INPUT/3-INPUT AND-OR GATE

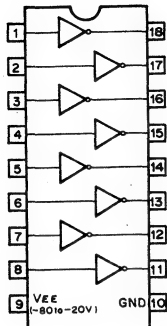
— TOP VIEW —



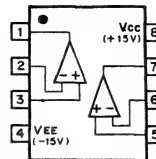
$$Y = A \cdot B + C \cdot D$$

$$Y = A \cdot B \cdot C + D \cdot E \cdot F$$

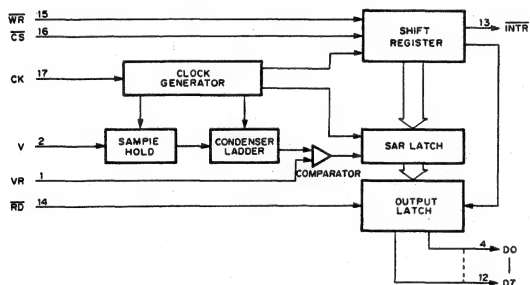
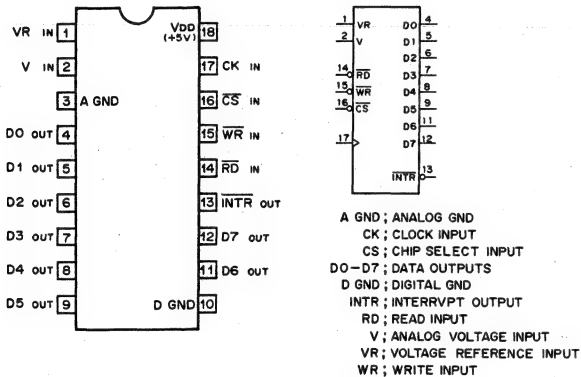
MSL917RS (OKI)
VACUUM FLUORESCENT DISPLAY DRIVER
— TOP VIEW —



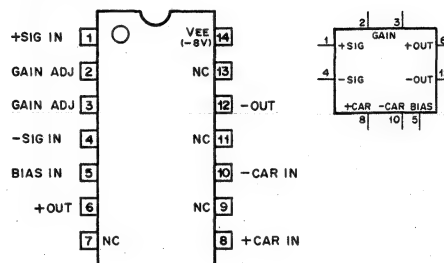
NJM082M (JRC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —



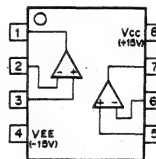
MSM5204ARS (OKI)
C-MOS 8 BIT ANALOG TO DIGITAL CONVERTER
— TOP VIEW —



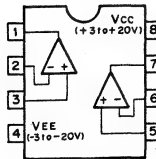
NJM1496M (JRC) FLAT PACKAGE
BALANCED MODULATOR/DEMODULATOR
— TOP VIEW —



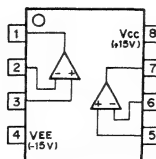
NJM2041M-D (JRC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —



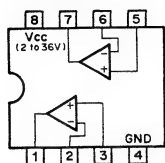
NE5532P (TI)
LOW NOISE OPERATIONAL AMPLIFIER
— TOP VIEW —



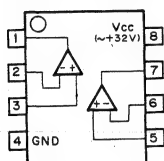
NJM2043M-D (JRC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —



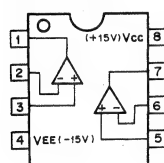
NJM2903D (JRC)
 NJM2903M (JRC) FLAT PACKAGE
 uPC393G2 (NEC) FLAT PACKAGE
 VOLTAGE COMPARATOR
 — TOP VIEW —



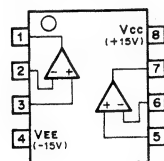
NJM4556D (JRC)
 OPERATIONAL AMPLIFIER
 — TOP VIEW —



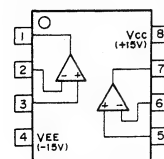
NJM4558D (JRC)
 NJM4558D-FA (JRC)
 NJM4558M (JRC) FLAT PACKAGE
 OPERATIONAL AMPLIFIER
 — TOP VIEW —



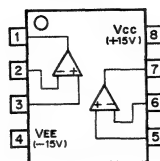
NJM4560DD (JRC)
 NJM4560M (JRC) FLAT PACKAGE
 OPERATIONAL AMPLIFIER
 — TOP VIEW —



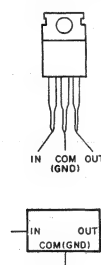
NJM4562D-D (JRC)
 OPERATIONAL AMPLIFIER
 — TOP VIEW —



NJM5532M (JRC) FLAT PACKAGE
 OPERATIONAL AMPLIFIER
 — TOP VIEW —



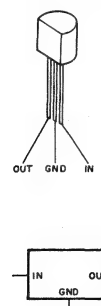
NJM78??A (JRC)
 POSITIVE VOLTAGE REGULATOR (1A)
 — SIDE VIEW —



OUTPUT VOLTAGE	AN78??	FS78??	HA178??P	L78??	NJM78??B	NJM78??A/K
+5V	AN7805	FS7805	HA17805P	L7805	-----	NJM7805A/K
+6V	AN7806	-----	HA17806P	-----	-----	NJM7806A/K
+7V	AN7807	-----	HA17807P	L7807	-----	-----
+8V	AN7808	-----	HA17808P	-----	-----	NJM7808A/K
+8.5V	-----	-----	-----	-----	-----	-----
+9V	AN7809	-----	-----	-----	-----	NJM7809A/K
+10V	AN7810	-----	-----	-----	-----	-----
+12V	AN7812	FS7812	HA17812P	-----	NJM7812B	NJM7812A/K
+15V	AN7815	FS7815	HA17815P	-----	-----	NJM7815A/K
+18V	AN7818	-----	HA17818P	-----	-----	NJM7818A/K
+20V	AN7820	-----	-----	-----	-----	NJM7820A/K
+24V	AN7824	FS7824	HA17824P	-----	-----	NJM7824A/K

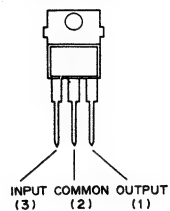
OUTPUT VOLTAGE	uA78??UC	uPC143??H	uPC78??H	TA78??P/AP
+5V	uA7805UC	uPC14305H	uPC7805H	TA78005P/AP
+6V	uA7806UC	-----	-----	TA78006P/AP
+7V	-----	-----	-----	-----
+8V	uA7808UC	uPC14308H	uPC7808H	TA78008P/AP
+8.5V	uA7885UC	-----	-----	-----
+9V	-----	-----	-----	TA78009P/AP
+10V	-----	-----	-----	TA78010P/AP
+12V	uA7812UC	uPC14312H	uPC7812H	TA78012P/AP
+15V	uA7815UC	uPC14315H	uPC7815H	TA78015P/AP
+18V	uA7818UC	uPC14318H	uPC7818H	TA78018P/AP
+20V	-----	-----	-----	TA78020P/AP
+24V	uA7824UC	uPC14324H	uPC7824H	TA78024P/AP

NJM78L??A (NEC)
 POSITIVE VOLTAGE REGULATOR (100mA)

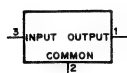


OUTPUT VOLTAGE	NJM78L??A	uA78L??ACL	uA78L??AWV	uPC78L??J	AN78L??
+2.6V	NJM78L02A	uA78L02ACL	uA78L26AWV	-----	-----
+4V	-----	-----	-----	-----	AN78L04
+5V	NJM78L05A	uA78L05ACL	uA78L05AWV	uPC78L05J	AN78L05
+6V	NJM78L06A	-----	-----	-----	AN78L06
+6.2V	-----	uA78L06ACL	uA78L62AWV	-----	-----
+7V	-----	-----	-----	-----	AN78L07
+8V	NJM78L08A	uA78L08ACL	-----	uPC78L08J	AN78L08
+8.2V	-----	-----	uA78L82AWV	-----	-----
+9V	NJM78L09A	uA78L09ACL	uA78L09AWV	-----	AN78L09
+10V	-----	uA78L10ACL	-----	uPC78L10J	AN78L10
+12V	NJM78L12A	uA78L12ACL	uA78L12AWV	uPC78L12J	AN78L12
+15V	NJM78L15A	uA78L15ACL	uA78L15AWV	uPC78L15J	AN78L15
+18V	NJM78L18A	-----	uA78L18AWV	-----	AN78L18
+20V	NJM78L20A	-----	-----	-----	AN78L20
+24V	NJM78L24A	-----	uA78L24AWV	-----	AN78L24

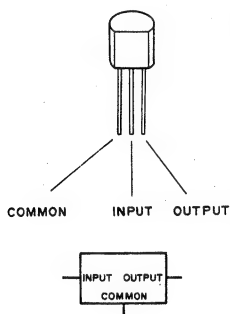
NJM78M ??A (JRC)
POSITIVE VOLTAGE REGULATOR (500mA)
— FRONT VIEW —



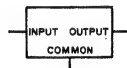
5V	NJM78M05A
6V	NJM78M06A
8V	NJM78M08A
9V	NJM78M09A
12V	NJM78M12A
15V	NJM78M15A
18V	NJM78M18A
20V	NJM78M20A
24V	NJM78M24A



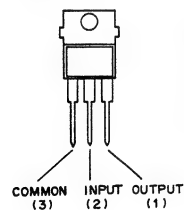
NJM79L ??A (JRC)
NEGATIVE VOLTAGE REGULATOR (100mA)
— FRONT VIEW —



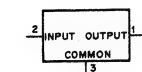
OUTPUT VOLTAGE	NJM79LPPA
-3V	NJM79L03A
-4V	NJM79L04A
-5V	NJM79L05A
-6V	NJM79L06A
-7V	NJM79L07A
-8V	NJM79L08A
-9V	NJM79L09A
-10V	NJM79L10A
-12V	NJM79L12A
-15V	NJM79L15A
-18V	NJM79L18A
-20V	NJM79L20A
-24V	NJM79L24A



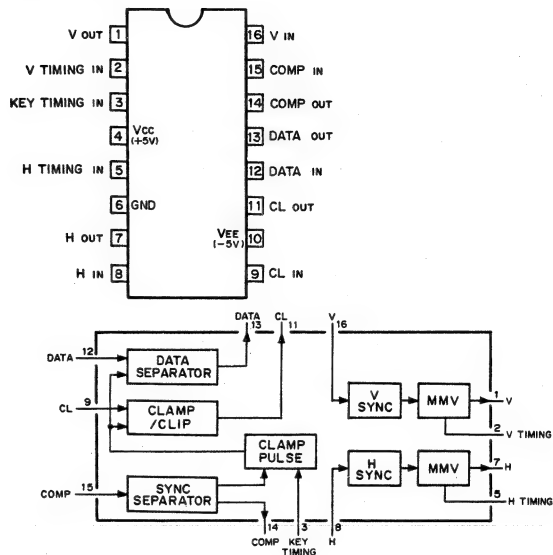
NJM79M ??A (JRC)
NEGATIVE VOLTAGE REGULATOR (500mA)
— FRONT VIEW —



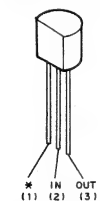
-5V	NJM79M05A
-6V	NJM79M06A
-8V	NJM79M08A
-9V	NJM79M09A
-12V	NJM79M12A
-15V	NJM79M15A
-18V	NJM79M18A
-24V	NJM79M24A



PA0009 (PIONEER)
SIGNAL SEPARATOR
— TOP VIEW —



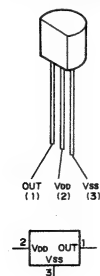
S-802?? (SEIKO I AND E)
C-MOS VOLTAGE REGULATOR



* S-802PP → V_{DD}
S-812PP → V_{SS}

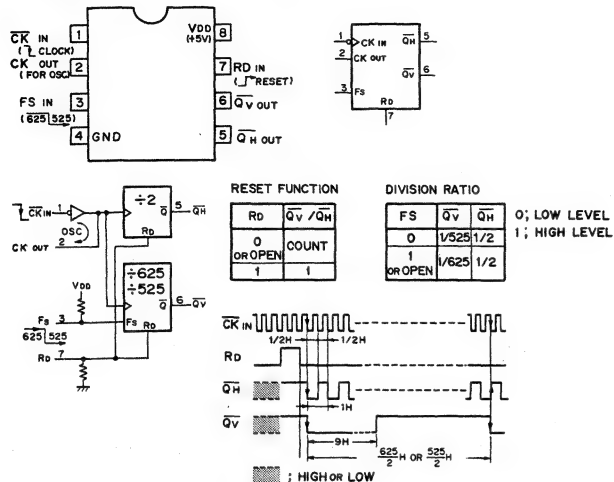
OUTPUT VOLTAGE	S-802PP	S-812PP
-3V	S-80230AG	
-5V	S-80250AG	
+3V	S-81230AG	
+5V	S-81250AG	
+5V	S-81250HG	

S-805?? (SEIKO I AND E)
VOLTAGE DETECTOR

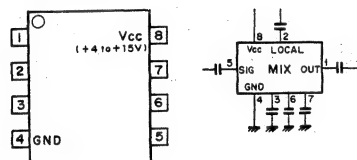


DETECTION RANGE (V)	S-805??
1.00 - 1.10	S-8051 ANB
1.10 - 1.20	S-8051 ANR
2.00 - 2.20	S-8052 ALB
2.20 - 2.40	S-8052 ALR
2.40 - 2.60	S-8052 ALO
2.60 - 2.80	S-8052 ALY
2.80 - 3.10	S-8053 ALB
2.90 - 3.10	S-8053 HLB
3.10 - 3.40	S-8053 ALR
3.25 - 3.405	S-8053 ALR-U
3.80 - 4.20	S-8054 HN
4.00 - 4.30	S-8054 ALB
4.30 - 4.60	S-8054 ALR
4.60 - 4.90	S-8054 ALO
4.90 - 5.20	S-8054 ALY

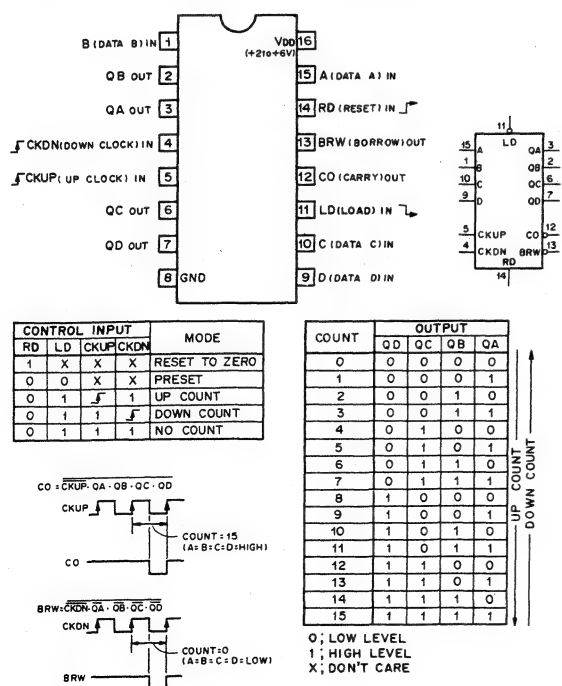
SM6430C (NPC)
C-MOS OSC, 1/2 AND 1/525 OR 1/625 DIVIDER
— TOP VIEW —



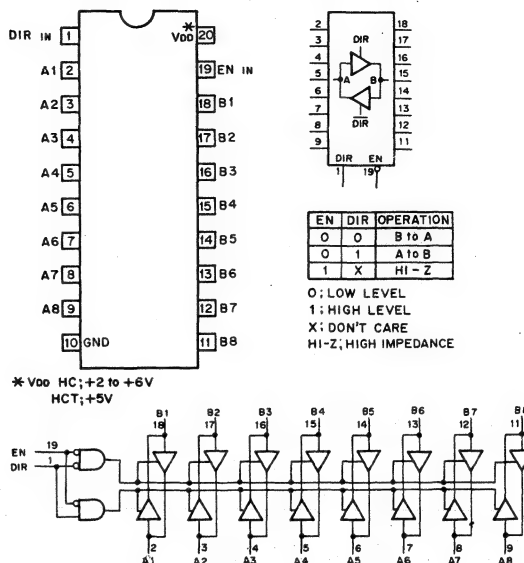
SN16913P (TI)
BALANCED MIXER
— TOP VIEW —



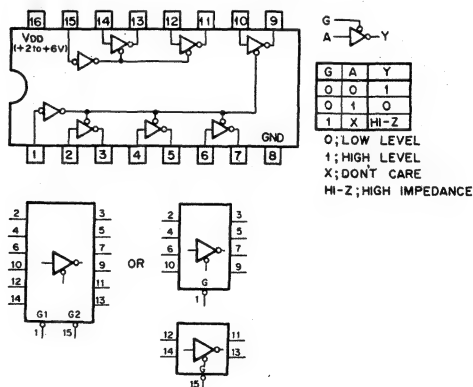
SN74HC193NS (TI) FLAT PACKAGE
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT UP/DOWN COUNTER
— TOP VIEW —



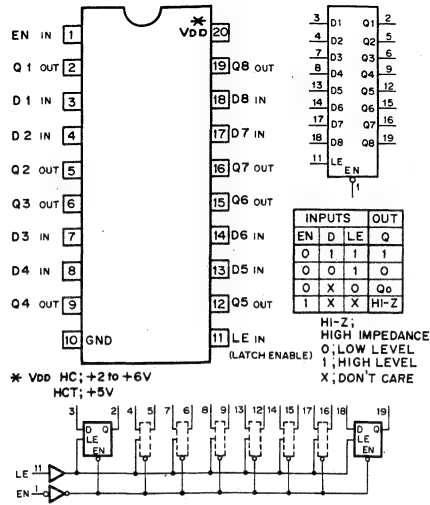
SN74HC245NS (TI) FLAT PACKAGE
TC74HC245P (TOSHIBA)
C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUT
— TOP VIEW —



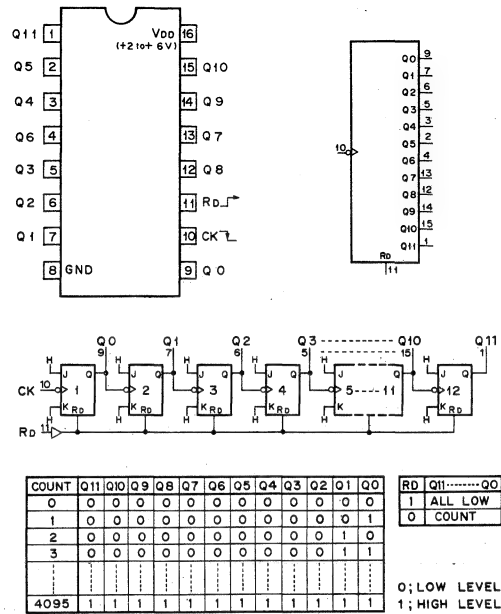
SN74HC368NS (TI) FLAT PACKAGE
C-MOS BUS INVERTER WITH 3-STATE OUTPUTS
— TOP VIEW —



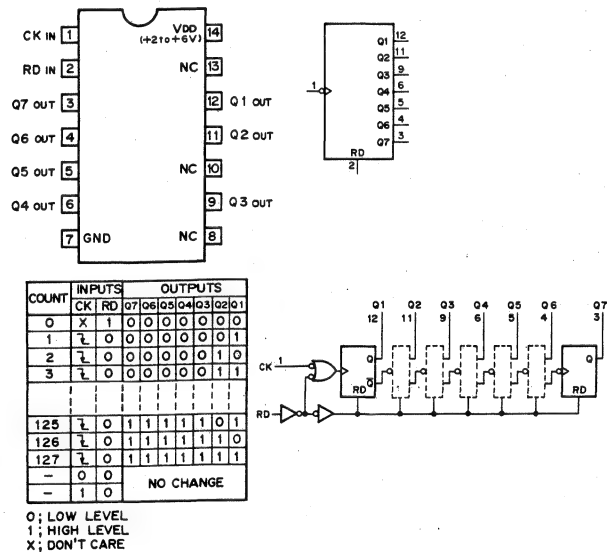
SN74HC373NS (TI) FLAT PACKAGE
TC74HC373P (TOSHIBA)
C-MOS 3-STATE OUTPUTS OCTAL LATCHES
— TOP VIEW —



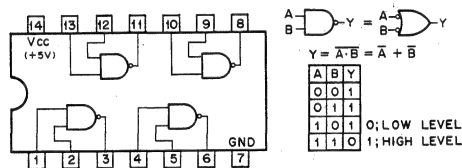
SN74HC4040NS (TI) FLAT PACKAGE
C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER
— TOP VIEW —



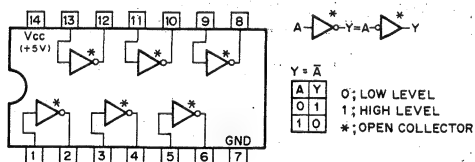
SN74HC4024NS (TI) FLAT PACKAGE
C-MOS 7-BIT BINARY COUNTERS



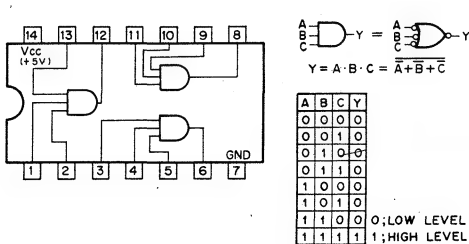
SN74LS00NS (TI) FLAT PACKAGE
TTL 2-INPUT POSITIVE-NAND GATE
— TOP VIEW —



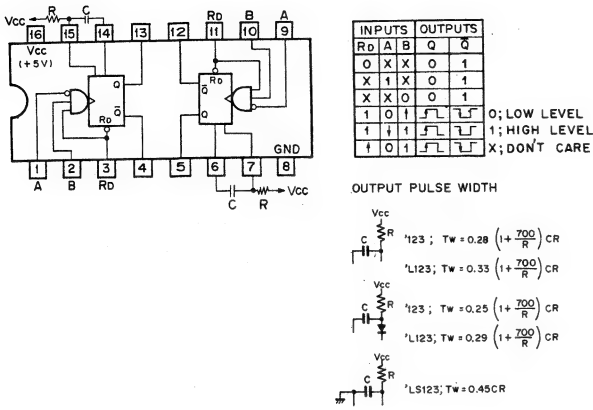
SN74LS06N (TI)
SN74LS06NS (TI) FLAT PACKAGE
TTL INVERTER BUFFER/DRIVER WITH OPEN-COLLECTOR
— TOP VIEW —



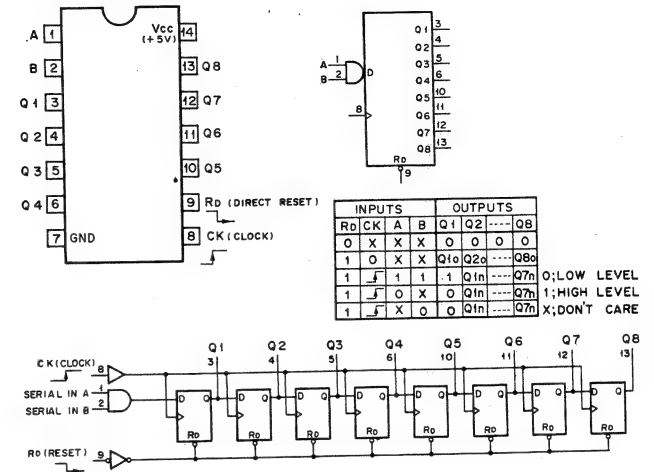
SN74LS11NS (TI) FLAT PACKAGE
TTL 3-INPUT POSITIVE-AND GATE
— TOP VIEW —



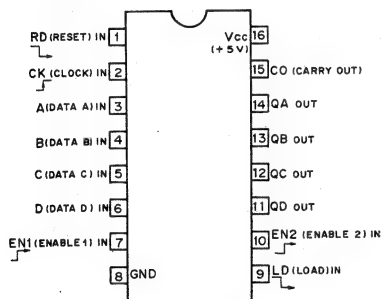
SN74LS123N (TI)
SN74LS123NS (TI) FLAT PACKAGE
TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET
— TOP VIEW —



SN74LS164NS (TI) FLAT PACKAGE
TTL 8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER
— TOP VIEW —



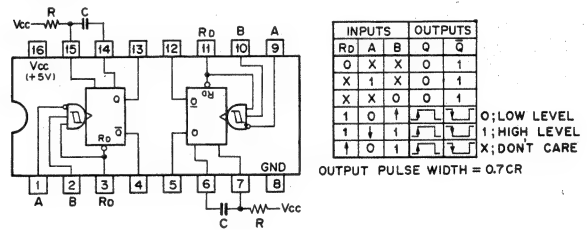
SN74LS163ANS (TI) FLAT PACKAGE
TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
— TOP VIEW —



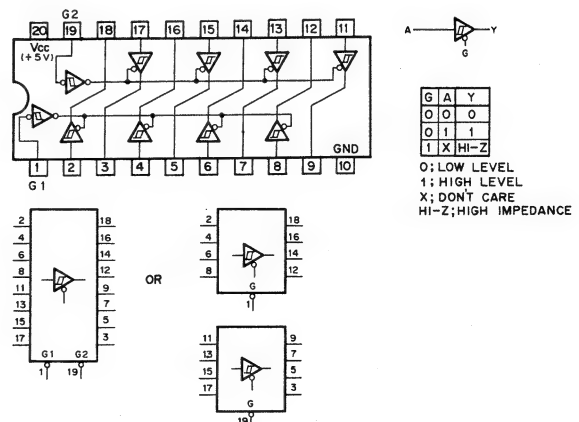
COUNT SEQUENCE

COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

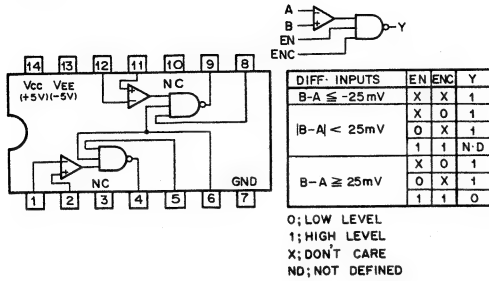
SN74LS221NS (TI) FLAT PACKAGE
TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
— TOP VIEW —



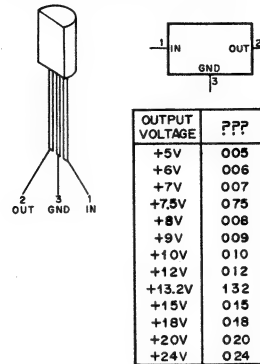
SN74LS244N (TI)
TTL 3-STATE SCHMITT TRIGGER BUFFER/DRIVER
— TOP VIEW —



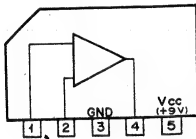
SN75107AN (TI)
LINE RECEIVER
— TOP VIEW —



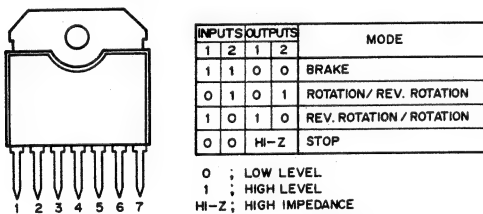
TA78L??AP (TOSHIBA)
POSITIVE VOLTAGE REGULATOR (150mA)



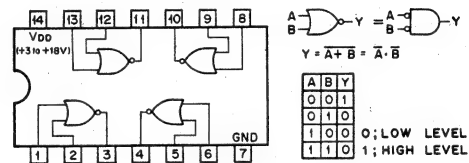
TA7060AP (TOSHIBA)
LINEAR AMP
— SIDE VIEW —



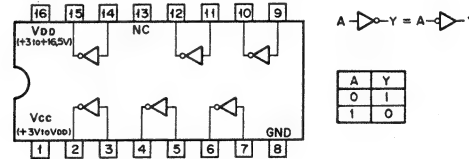
TA7267P (TOSHIBA)
DC MOTOR DRIVER
— PRINTED SIDE VIEW —



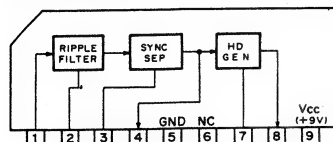
TC4001BF (TOSHIBA) FLAT PACKAGE
TC4001BP (TOSHIBA)
C-MOS 2-INPUT NOR GATE
— TOP VIEW —



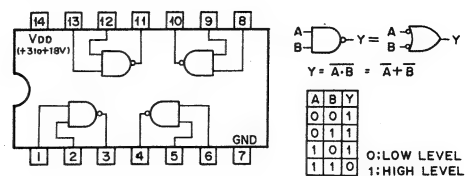
TC4009UBP (TOSHIBA)
C-MOS INVERTING TYPE BUFFER/CONVERTER (TO TTL LEVEL)
— TOP VIEW —



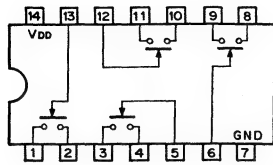
TA7357AP (TOSHIBA)
SYNC SEPARATOR/HD PULSE GENERATOR
— SIDE VIEW —



TC4011BF (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



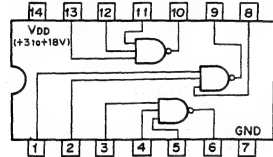
TC4016BP (TOSHIBA)
C-MOS BILATERAL SWITCH
— TOP VIEW —



CONT IN	SW
0	OFF
1	ON

0; LOW LEVEL
1; HIGH LEVEL

TC4023BF (TOSHIBA) FLAT PACKAGE
C-MOS 3-INPUT NAND GATE
— TOP VIEW —

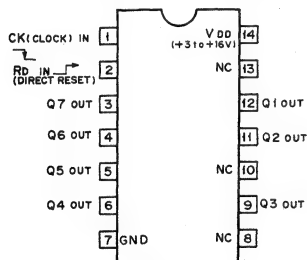


$A \cdot B \cdot C = Y$
 $Y = A \cdot B \cdot C = \overline{A} + \overline{B} + \overline{C}$

A	B	C	Y
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

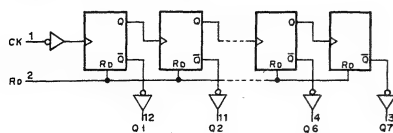
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TC4024BF (TOSHIBA) FLAT PACKAGE
C-MOS ASYNCHRONOUS 7-BIT BINARY COUNTER
— TOP VIEW —

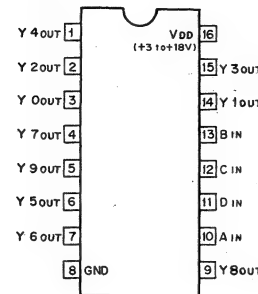


COUNT	CK	RD	Q7	Q6	Q5	Q4	Q3	Q2	Q1
0	X	1	0	0	0	0	0	0	0
1	1	0	0	0	0	0	0	0	1
2	1	0	0	0	0	0	0	1	0
3	1	0	0	0	0	0	0	1	1
4	1	0	0	0	0	0	1	0	0
125	1	0	1	1	1	1	1	0	1
126	1	0	1	1	1	1	1	1	0
127	1	0	1	1	1	1	1	1	1
—	0	0	NO CHANGE						
—	1	0	NO CHANGE						

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE



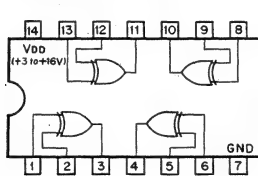
TC4028BF (TOSHIBA) FLAT PACKAGE
C-MOS BCD TO DECIMAL DECODER
— TOP VIEW —



STATE	D	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9
0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
2	0	0	1	0	0	0	1	0	0	0	0	0	0	0
3	0	0	1	1	0	0	0	1	0	0	0	0	0	0
4	0	1	0	0	0	0	0	0	1	0	0	0	0	0
5	0	1	0	1	0	0	0	0	0	1	0	0	0	0
6	0	1	1	0	0	0	0	0	0	0	1	0	0	0
7	0	1	1	1	0	0	0	0	0	0	0	1	0	0
8	1	X	X	0	0	0	0	0	0	0	0	0	1	0
9	1	X	X	1	0	0	0	0	0	0	0	0	0	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TC4030BF (TOSHIBA) FLAT PACKAGE
TC4030BP (TOSHIBA)
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —

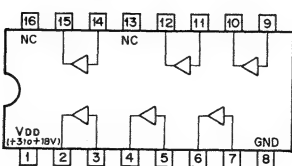


$A \oplus B = Y$
 $Y = A \oplus B + A \oplus B$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

TC4050BF (TOSHIBA) FLAT PACKAGE
TC4050BP (TOSHIBA)
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —

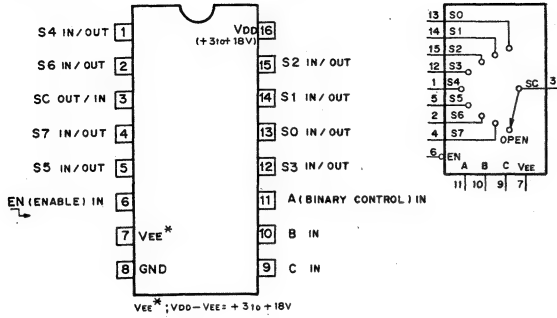


$Y = A$

A	Y
0	0
1	1

0; LOW LEVEL
1; HIGH LEVEL

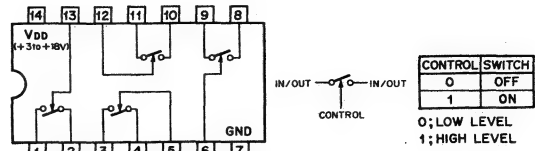
TC4051BF (TOSHIBA) FLAT PACKAGE
C-MOS 8-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —



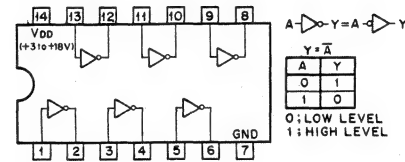
EN	C	B	A	"ON" CHANNEL
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	X	X	X	OPEN

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

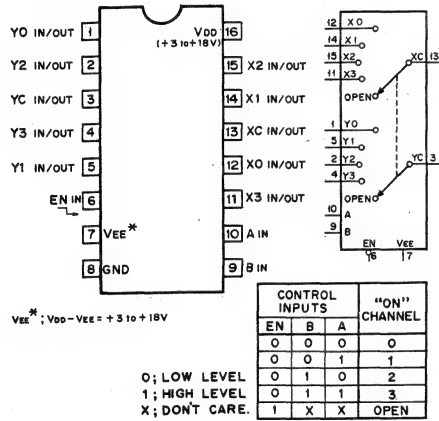
TC4066BF (TOSHIBA)
C-MOS BILATERAL ANALOG SWITCH
— TOP VIEW —



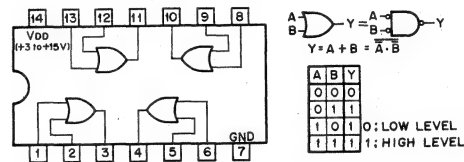
TC4069UBF (TOSHIBA) FLAT PACKAGE
TC4069UBP (TOSHIBA)
C-MOS INVERTER
— TOP VIEW —



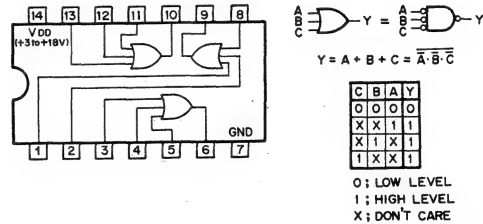
TC4052BF (TOSHIBA) FLAT PACKAGE
C-MOS 4-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —



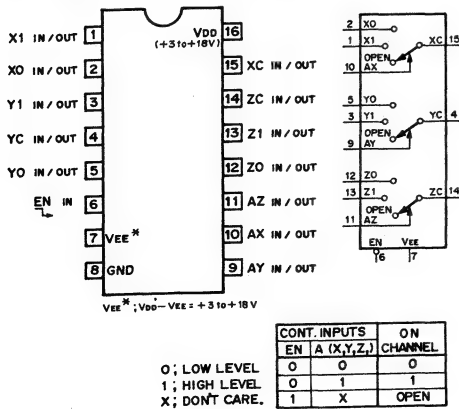
TC4071BF (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT OR GATE
— TOP VIEW —



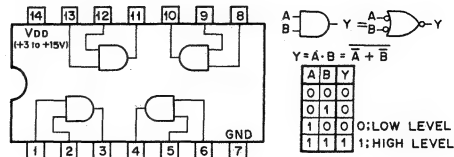
TC4075BF (TOSHIBA) FLAT PACKAGE
C-MOS 3-INPUT OR GATE
— TOP VIEW —



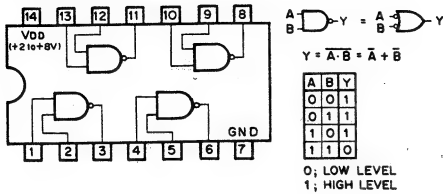
TC4053BF (TOSHIBA) FLAT PACKAGE
TC4053BFHB (TOSHIBA) FLAT PACKAGE
TC4053BP (TOSHIBA)
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —



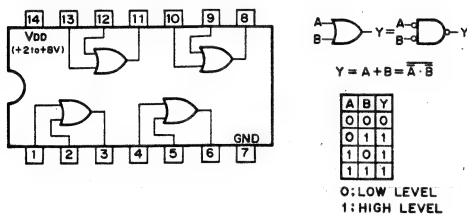
TC4081BF (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT AND GATE
— TOP VIEW —



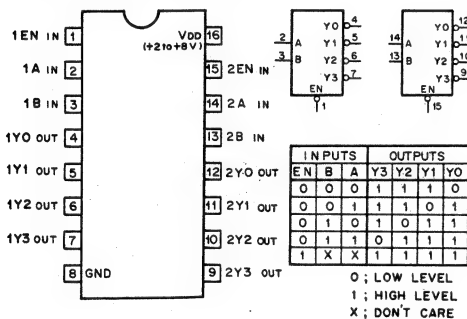
TC40H000F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



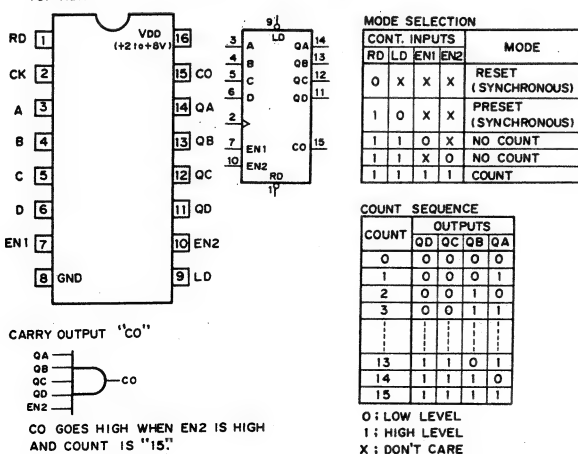
TC40H032F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT POSITIVE-OR GATE
— TOP VIEW —



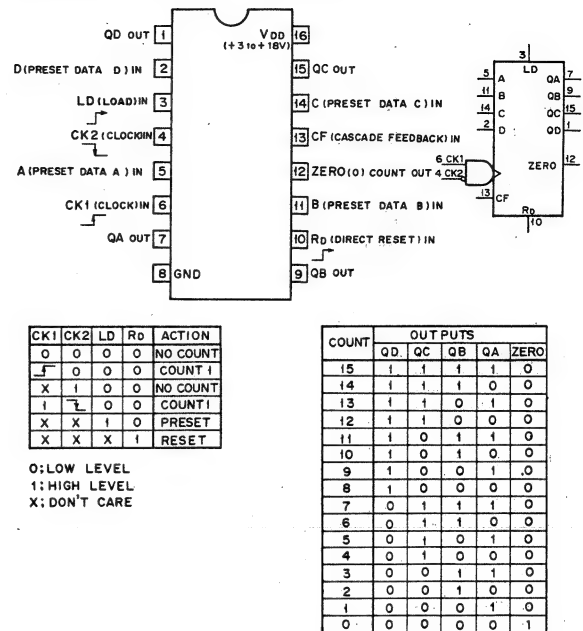
TC40H139F (TOSHIBA) FLAT PACKAGE
C-MOS 2-TO-4-LINE DECODER/DEMULTIPLXER
— TOP VIEW —



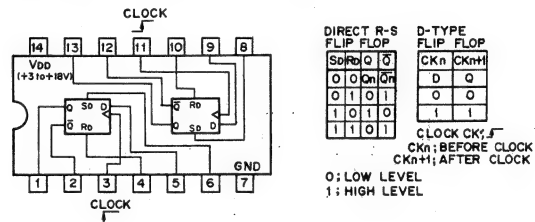
TC40H163F (TOSHIBA) FLAT PACKAGE
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
— TOP VIEW —



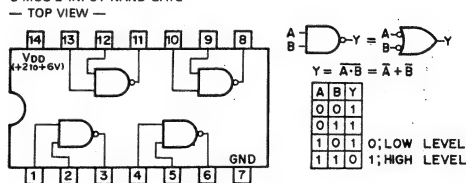
TC4526BP (TOSHIBA)
C-MOS PROGRAMMABLE DIVIDE-BY-N 4-BIT BINARY DOWN COUNTER
— TOP VIEW —



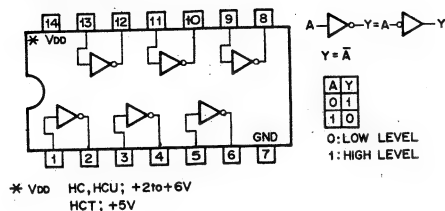
TC504013BF (TOSHIBA) FLAT PACKAGE
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
— TOP VIEW —



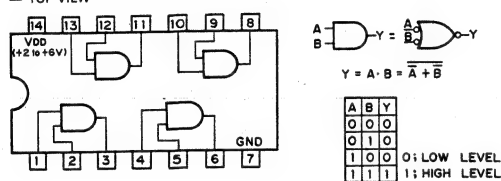
TC74HC00F (TOSHIBA) FLAT PACKAGE
TC74HC00P (TOSHIBA)
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



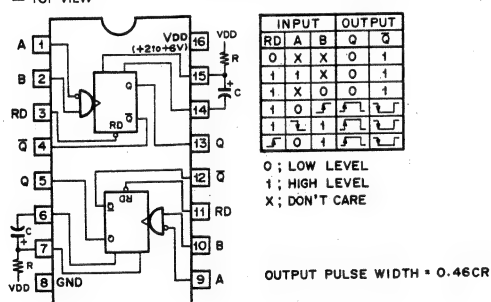
TC74HC04F (TOSHIBA) FLAT PACKAGE
TC74HC04P (TOSHIBA)
TC74HC04F (TOSHIBA) FLAT PACKAGE
TC74HC04P (TOSHIBA)
C-MOS INVERTER
— TOP VIEW —



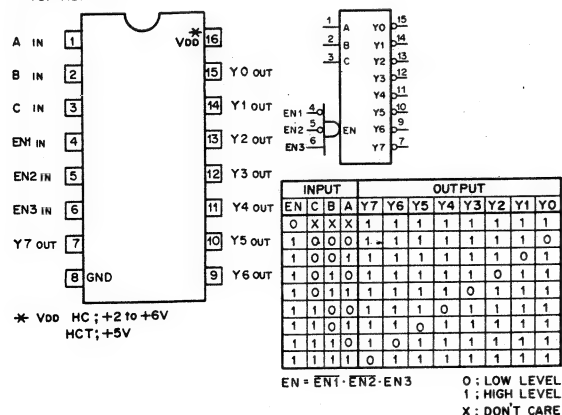
TC74HC08F (TOSHIBA) FLAT PACKAGE
TC74HC08P (TOSHIBA)
C-MOS 2-INPUT AND GATE
— TOP VIEW —



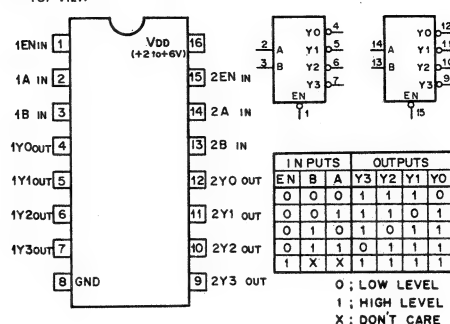
TC74HC123F (TOSHIBA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
— TOP VIEW —



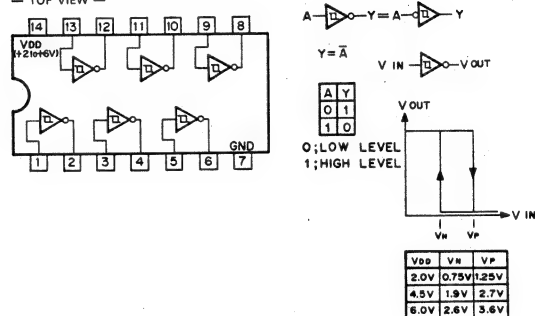
TC74HC138F (TOSHIBA) FLAT PACKAGE
TC74HC138P (TOSHIBA)
C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER
— TOP VIEW —



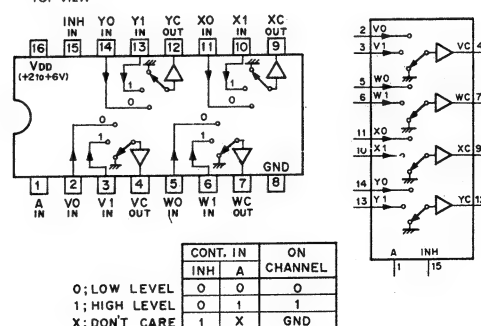
TC74HC139F (TOSHIBA) FLAT PACKAGE
TC74HC139P (TOSHIBA)
C-MOS 1-OF-4 DECODER/DEMULTIPLEXER
— TOP VIEW —



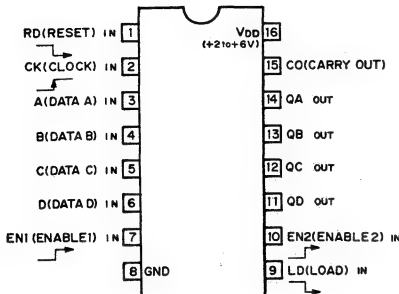
TC74HC14F (TOSHIBA) FLAT PACKAGE
TC74HC14P (TOSHIBA)
C-MOS SCHMITT TRIGGER INVERTER
— TOP VIEW —



TC74HC157P (TOSHIBA)
C-MOS 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



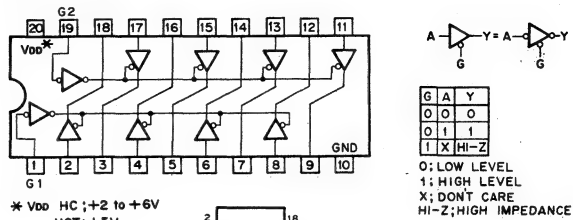
TC74HC160F (TOSHIBA) FLAT PACKAGE
C-MOS SYNCHRONOUS PRESETTABLE 4-BIT DECADE COUNTER
— TOP VIEW —



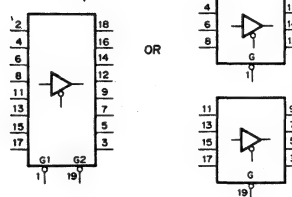
MODE SELECTION					
RD	LD	EN1	EN2	CK	MODE
0	X	X	X	X	RESET (ASYNCHRONOUS)
1	0	X	X	\uparrow	PRESET (SYNCHRONOUS)
1	1	0	X	\uparrow	NO COUNT
1	1	X	0	\uparrow	NO COUNT
1	1	1	1	\uparrow	COUNT

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

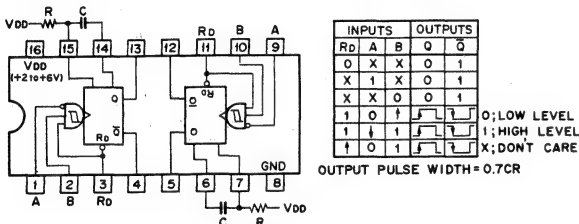
TC74HC244F (TOSHIBA) FLAT PACKAGE
TC74HC244P (TOSHIBA)
C-MOS BUS BUFFER WITH 3-STATE OUTPUT
— TOP VIEW —



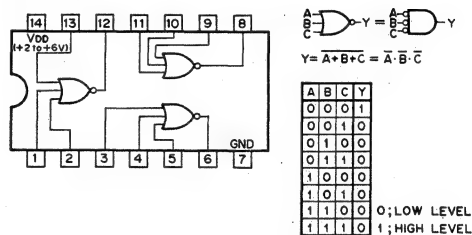
* VDD HC; +2 to +6V
HCT; +5V



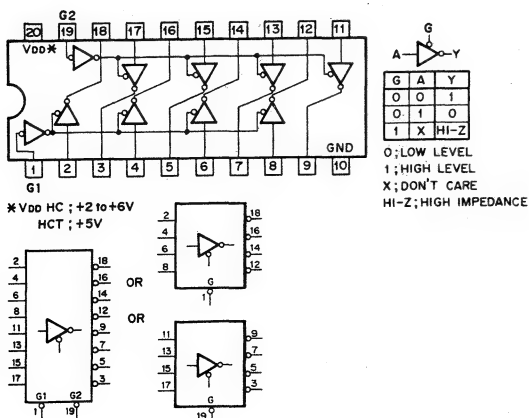
TC74HC221F (TOSHIBA) FLAT PACKAGE
C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
— TOP VIEW —



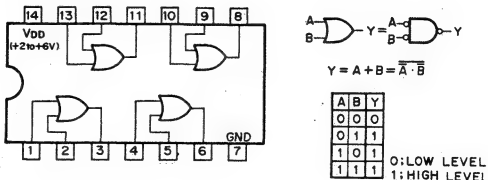
TC74HC27F (TOSHIBA) FLAT PACKAGE
C-MOS 3-LINE POSITIVE-NOR GATE
— TOP VIEW —



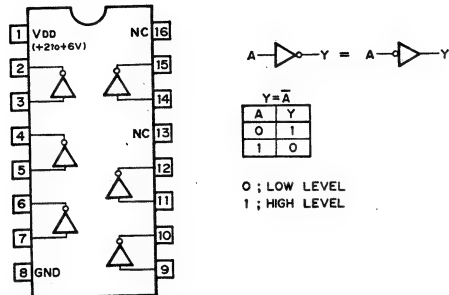
TC74HC240P (TOSHIBA)
C-MOS 3-STATE INVERTER/LINE DRIVER
— TOP VIEW —



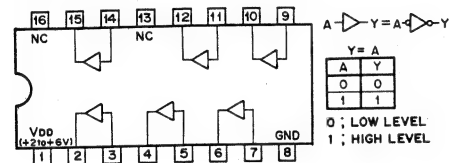
TC74HC32F (TOSHIBA) FLAT PACKAGE
TC74HC32P (TOSHIBA)
C-MOS 2-INPUT OR GATE
— TOP VIEW —



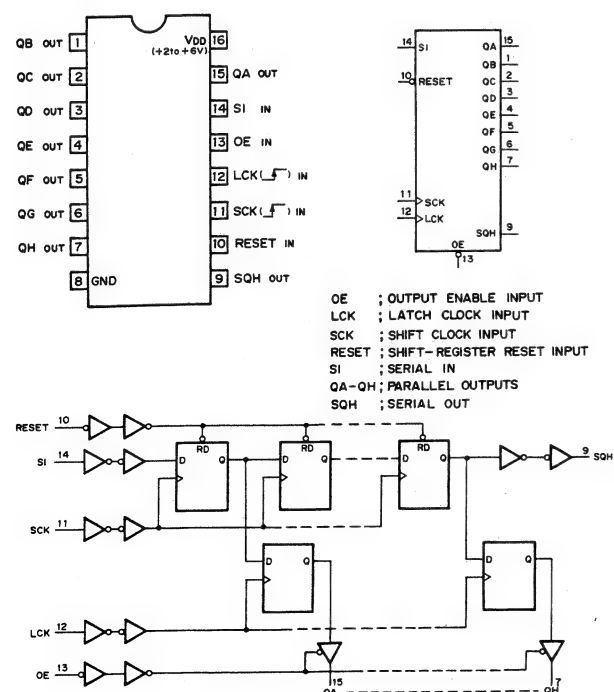
TC74HC4049F (TOSHIBA) FLAT PACKAGE
C-MOS HEX BUFFER/CONVERTER (INVERTING)
— TOP VIEW —



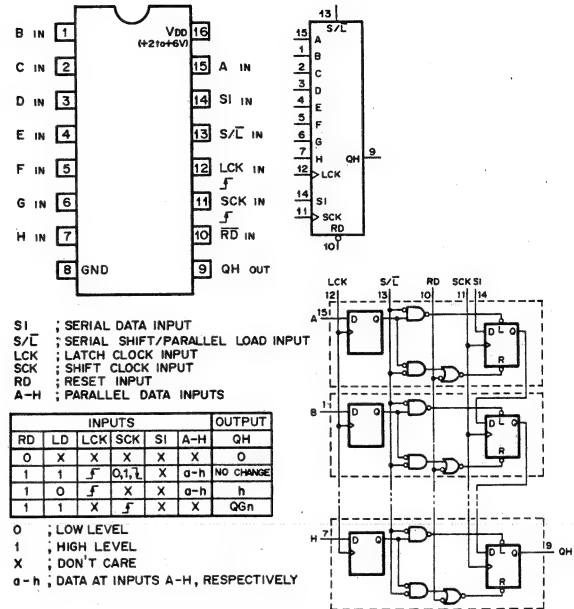
TC74HC4050F (TOSHIBA) FLAT PACKAGE
TC74HC4050P (TOSHIBA)
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



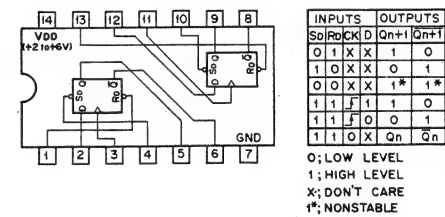
TC74HC595P (TOSHIBA)
C-MOS 8-BIT SERIAL-INPUT/SERIAL- OR PARALLEL-OUTPUT
SHIFT REGISTER WITH LATCHED 3-STATE OUTPUT
— TOP VIEW —



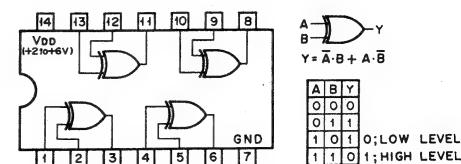
TC74HC597P (TOSHIBA)
CMOS 8-BIT LATCH/SHIFT REGISTER
— TOP VIEW —



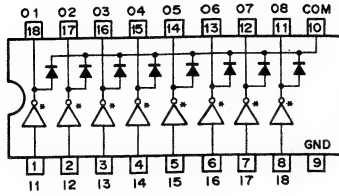
TC74HC74F (TOSHIBA) FLAT PACKAGE
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
— TOP VIEW —



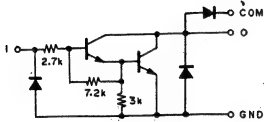
TC74HC86F (TOSHIBA) FLAT PACKAGE
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —



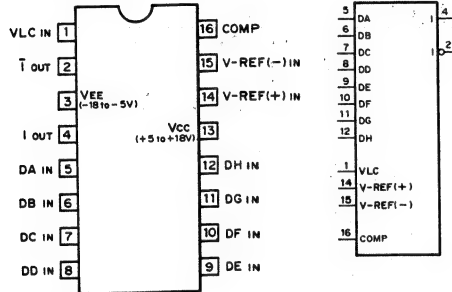
TD62083AP (TOSHIBA)
DARLINGTON DRIVER
— TOP VIEW —



*; OPEN COLLECTOR

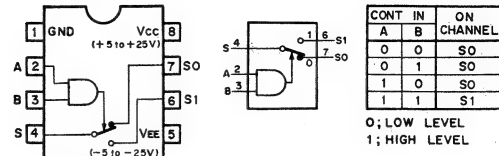


TD62901P (TOSHIBA)
HIGH SPEED 8-BIT D/A CONVERTER
— TOP VIEW —

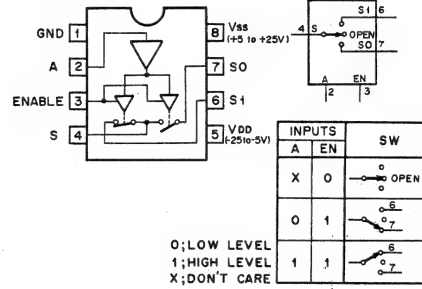


COMP : COMPENSATION
DA-DH : BINARY DATA
I : COMPLEMENTARY CURRENT
V-REF : REFERENCE VOLTAGE
VLC : THRESHOLD LEVEL CONTROL

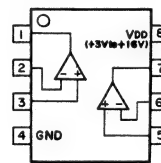
TL601CPS (TI) FLAT PACKAGE
P-MOS ANALOG SWITCH
— TOP VIEW —



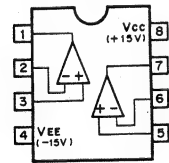
TL607CPS (TI) FLAT PACKAGE
P-MOS ANALOG SWITCH
— TOP VIEW —



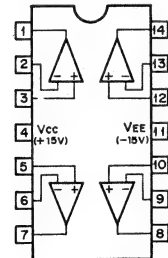
TLC27M2CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —



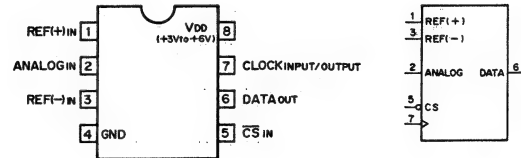
TL082CP (TI)
TL082CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —



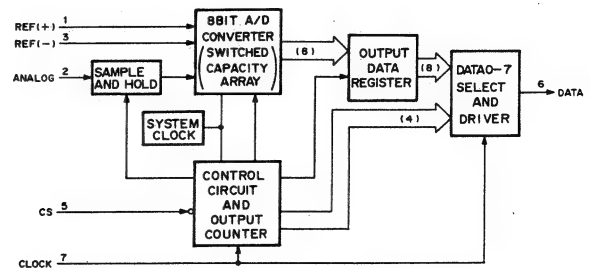
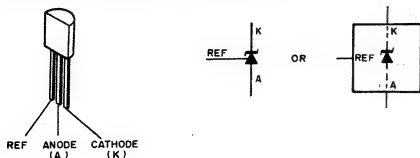
TL084CN (TI)
TL084CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —



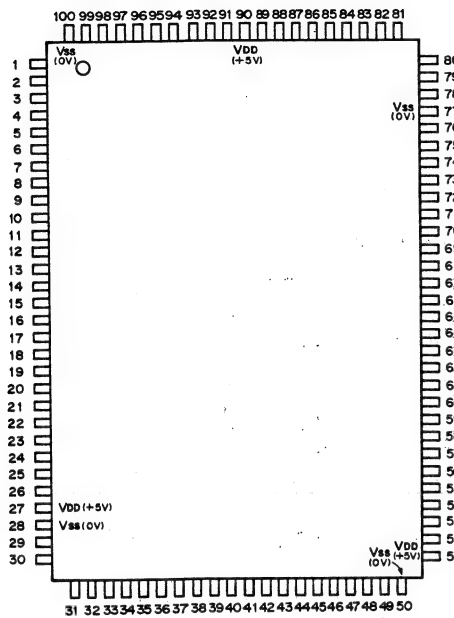
TLC548CP (TI)
C-MOS 8 BIT A/D CONVERTER
— TOP VIEW —



TL431CLPB (TI)
ADJUSTABLE PRECISION SHUNT REGULATOR

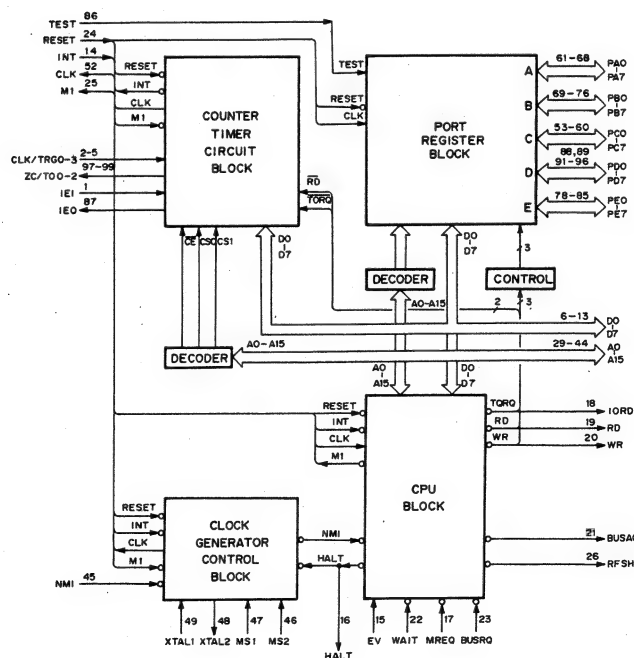


TMPZ84C011AF (TOSHIBA)
 TMPZ84C011AF-6 (TOSHIBA)
 C-MOS 8 BIT MICROPROCESSOR
 — TOP VIEW —

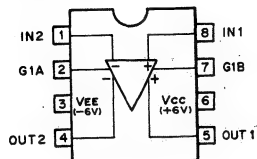


NO.	IN	OUT	SYMBOL	NO.	IN	OUT	SYMBOL
1			IE1	51			Vcc
2			CLK/TRG3	52			CLK
3			CLK/TRG2	53			PC7
4			CLK/TRG1	54			PC6
5			CLK/TRG0	55			PC5
6			D7	56			PC4
7			D6	57			PC3
8			D5	58			PC2
9			D4	59			PC1
10			D3	60			PC0
11			D2	61			PA7
12			D1	62			PA6
13			D0	63			PA5
14			INT	64			PA4
15			EV	65			PA3
16			HALT	66			PA2
17			MREQ	67			PA1
18			IORQ	68			PA0
19			RD	69			PB7
20			WR	70			PB6
21			BUSACK	71			PB5
22			WAIT	72			PB4
23			BUSREQ	73			PB3
24			RESET	74			PB2
25			MT	75			PB1
26			RFSH	76			PB0
27			Vcc	77			Vss
28			Vss	78			PE7
29			A0	79			PE6
30			A1	80			PE5
31			A2	81			PE4
32			A3	82			PE3
33			A4	83			PE2
34			A5	84			PE1
35			A6	85			PE0
36			A7	86			TEST
37			A8	87			IE0
38			A9	88			PD7
39			A10	89			PD6
40			A11	90			Vcc
41			A12	91			PD5
42			A13	92			PD4
43			A14	93			PD3
44			A15	94			PD2
45			NMI	95			PD1
46			MS2	96			PD0
47			MS1	97			ZC/T02
48			XTAL2	98			ZC/T01
49			XTAL1	99			ZC/T00
50			Vss	100			Vss

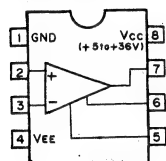
58	PA0	A0	29	AO-A15	3-STATE ADDRESS BUS OUTPUTS
57	PA1	A1	30	BUSACK	BUS ACKNOWLEDGE OUTPUT
56	PA2	A2	31	BUSREQ	BUS REQUEST INPUT
55	PA3	A3	32	CLK	CLOCK OUTPUT
54	PA4	A4	33	CLK/TRG0-3	EXTERNAL CLOCK / TIMER TRIGGER0-3 INPUTS
53	PA5	A5	34	DO-D7	3-STATE DATA BUS INPUTS/OUTPUTS
52	PA6	A6	35	EV	EVALUATOR INPUT
51	PA7	A7	36	HALT	HALT OUTPUT
50	PB0	A8	37	IE1/IE0	CTC INTERRUPT ENABLE INPUT/OUTPUT
49	PB1	A9	38	INT	MASKABLE INTERRUPT REQUEST INPUT
48	PB2	A10	39	IORQ	3-STATE I/O REQUEST OUTPUT
47	PB3	A11	40	M1	3-STATE MACHINE CYCLE 1 OUTPUT
46	PB4	A12	41	MREQ	3-STATE REQUEST OUTPUT
45	PB5	A13	42	MS1/MS2	MODE SELECT 1/2 INPUTS
44	PB6	A14	43	NMI	NON-MASKABLE INTERRUPT REQUEST INPUT
43	PB7	A15	44	PA0-PA7	
42	PC0	D0	45	PB0-PB7	
41	PC1	D1	46	PC0-PC7	3-STATE I/O PORT
40	PC2	D2	47	PC0-PD7	
39	PC3	D3	48	PC0-PD7	
38	PC4	D4	49	PC0-PD7	
37	PC5	D5	50	PC0-PD7	
36	PC6	D6	51	PC0-PD7	
35	PC7	D7	52	PC0-PD7	
34	PD0	DO	53	PC0-PD7	
33	PD1	D1	54	PC0-PD7	
32	PD2	D2	55	PC0-PD7	
31	PD3	D3	56	PC0-PD7	
30	PD4	D4	57	PC0-PD7	
29	PD5	D5	58	PC0-PD7	
28	PD6	D6	59	PC0-PD7	
27	PD7	D7	60	PC0-PD7	
26	PE0	PE0	61	PC0-PD7	
25	PE1	PE1	62	PC0-PD7	
24	PE2	PE2	63	PC0-PD7	
23	PE3	PE3	64	PC0-PD7	
22	PE4	PE4	65	PC0-PD7	
21	PE5	PE5	66	PC0-PD7	
20	PE6	PE6	67	PC0-PD7	
19	PE7	PE7	68	PC0-PD7	
18	TEST	TEST	69	PC0-PD7	
17	IE0	IE0	70	PC0-PD7	
16	PD7	PD7	71	PC0-PD7	
15	PD6	PD6	72	PC0-PD7	
14	PD5	PD5	73	PC0-PD7	
13	PD4	PD4	74	PC0-PD7	
12	PD3	PD3	75	PC0-PD7	
11	PD2	PD2	76	PC0-PD7	
10	PD1	PD1	77	PC0-PD7	
9	PD0	PD0	78	PC0-PD7	
8	ZC/T00	ZC/T00	79	PC0-PD7	
7	ZC/T01	ZC/T01	80	PC0-PD7	
6	ZC/T02	ZC/T02	81	PC0-PD7	
5	RESET	RESET	82	PC0-PD7	
4	IE1	IE1	83	PC0-PD7	
3	INT	INT	84	PC0-PD7	
2	NMI	NMI	85	PC0-PD7	
1	MS1	MS1	86	PC0-PD7	
0	MS2	MS2	87	PC0-PD7	
	XTAL1	XTAL1	88	PC0-PD7	
	XTAL2	XTAL2	89	PC0-PD7	
	Vss	Vss	90	PC0-PD7	



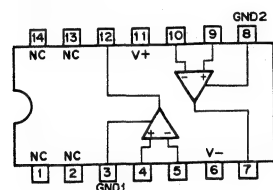
uPC1663G (NEC) FLAT PACKAGE
WIDEBAND VIDEO AMPLIFIER
— TOP VIEW —



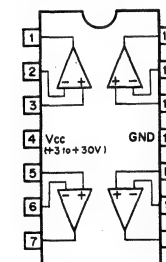
uPC311G2 (NEC) FLAT PACKAGE
VOLTAGE COMPARATOR
— TOP VIEW —



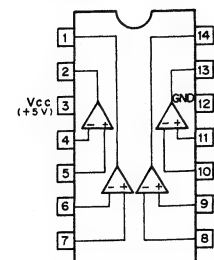
uPC319G2 (NEC) FLAT PACKAGE
VOLTAGE COMPARATOR
— TOP VIEW —



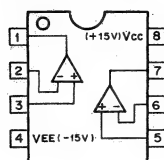
uPC324C (NEC)
QUAD. OP. AMPLIFIER
— TOP VIEW —



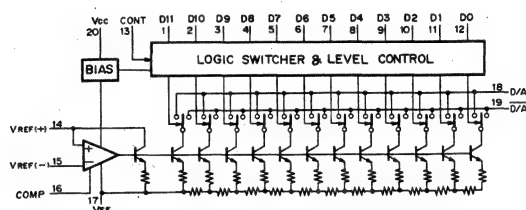
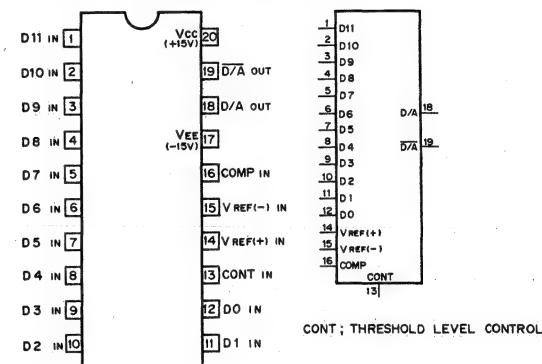
uPC339G2 (NEC) FLAT PACKAGE
COMPARATOR
— TOP VIEW —



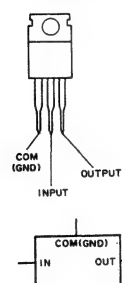
uPC4558C (NEC)
uPC4558G2 (NEC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —



uPC648C (NEC)
12-BIT D/A CONVERTER WITH OPEN COLLECTOR OUTPUT
— TOP VIEW —

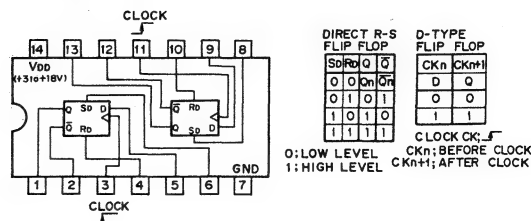


uPC79??H (NEC)
NEGATIVE VOLTAGE REGULATOR (1A)
— SIDE VIEW —



OUTPUT VOLTAGE	AN79??	FS79??	uA79??UC	uPC79??H	MC79??CT
-2V	AN7905	FS7905	uA7905UC	uPC7905H	MC7905CT
-5V	AN7905	FS7905	uA7905UC	uPC7905H	MC7905CT
-5.2V	AN7905	FS7905	uA7905UC	uPC7905H	MC7905.2CT
-6V	AN7906	FS7906	uA7906UC	uPC7906H	MC7906CT
-7V	AN7907	FS7907	uA7907UC	uPC7907H	MC7907CT
-8V	AN7908	FS7908	uA7908UC	uPC7908H	MC7908CT
-9V	AN7909	FS7909	uA7909UC	uPC7909H	MC7909CT
-10V	AN7910	FS7910	uA7910UC	uPC7910H	MC7910CT
-12V	AN7912	FS7912	uA7912UC	uPC7912H	MC7912CT
-15V	AN7915	FS7915	uA7915UC	uPC7915H	MC7915CT
-18V	AN7918	FS7918	uA7918UC	uPC7918H	MC7918CT
-20V	AN7920	FS7920	uA7920UC	uPC7920H	MC7920CT
-24V	AN7924	FS7924	uA7924UC	uPC7924H	MC7924CT

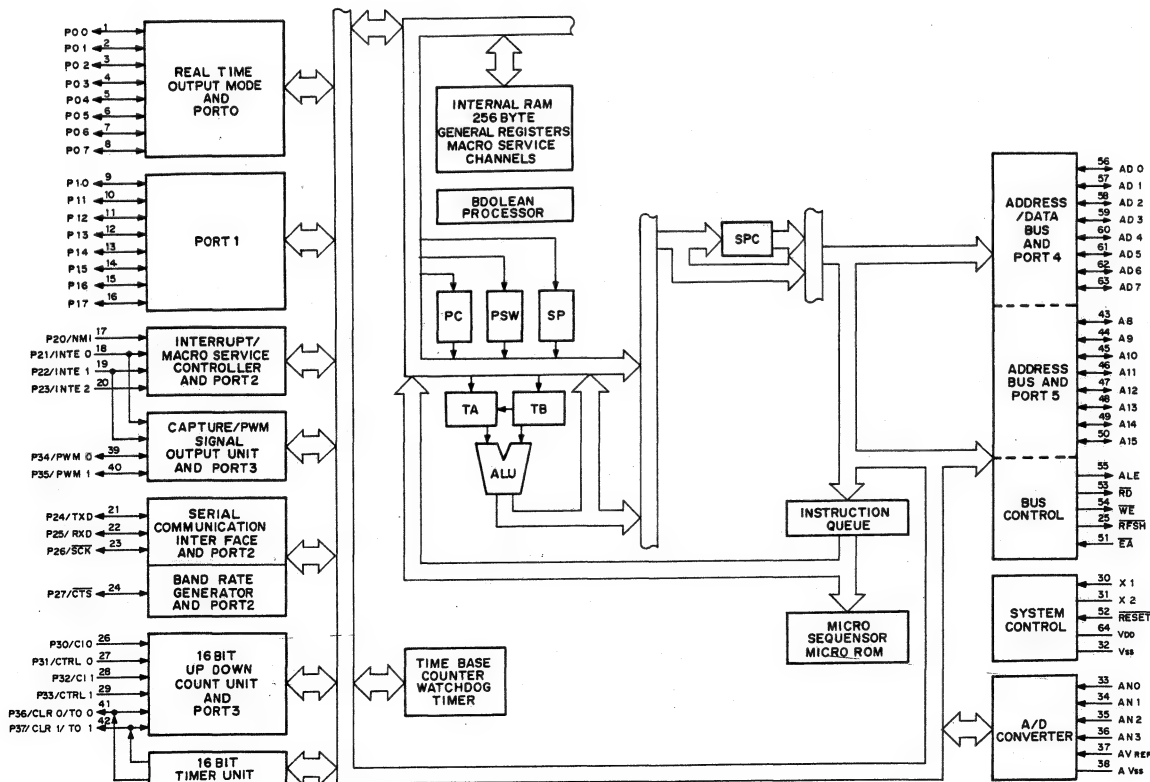
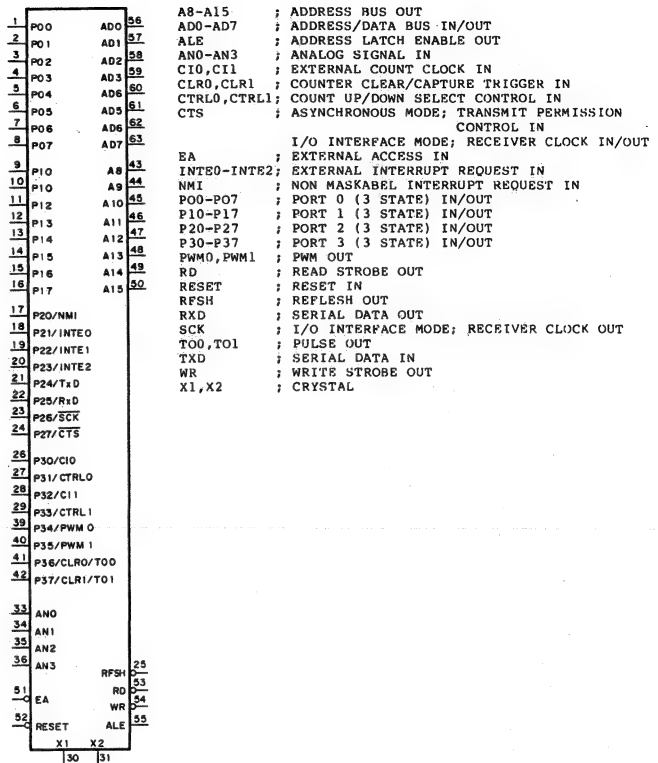
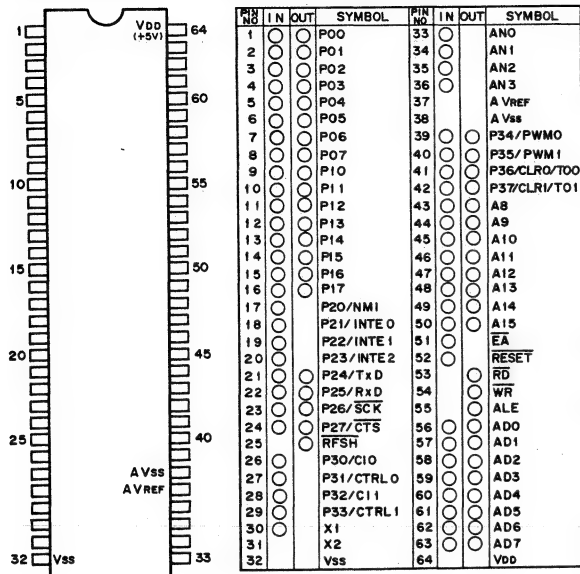
uPD4013BC (NEC)
C-MOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



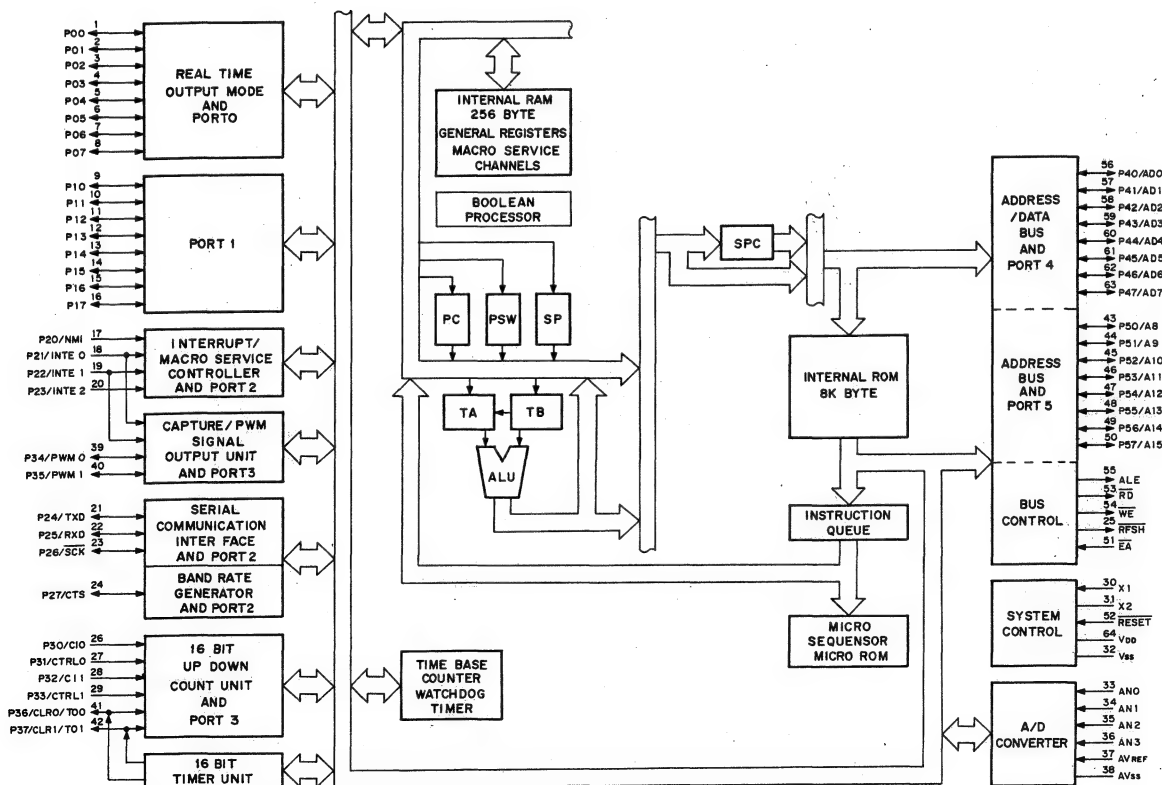
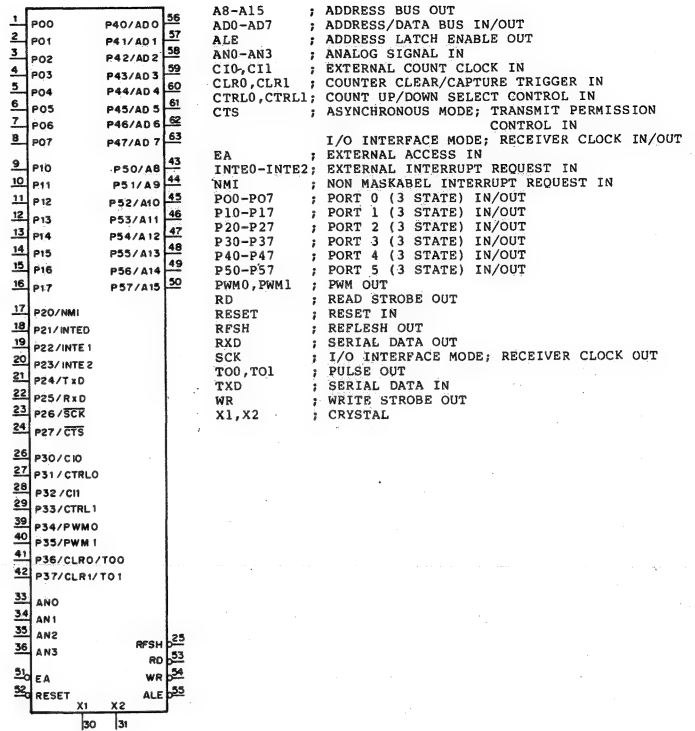
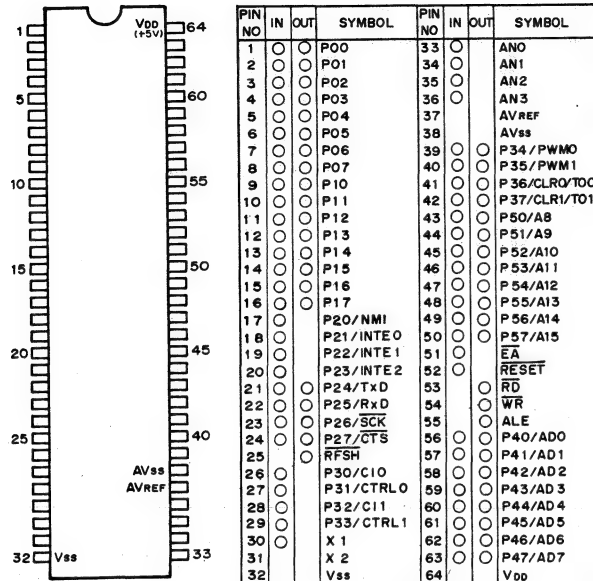
DIRECT R-S FLIP FLOP	D-TYPE FLIP FLOP
SD Rb 0 0	CKn CKn+1
0 0 0n 0n	0 0
0 1 0 1	0 0
1 0 1 0	1 1
1 1 1 1	1 1

CLOCK CKn
0: LOW LEVEL CKn+1: AFTER CLOCK
1: HIGH LEVEL CKn+1: AFTER CLOCK

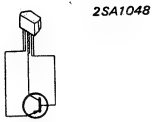
uPD78310CW (NEC)
C MOS 16/8 BIT ONE CHIP MICROCOMPUTER
— TOP VIEW —



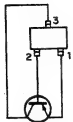
uPD78312CW (NEC)
C MOS 16/8 BIT ONE CHIP MICROCOMPUTER
— TOP VIEW —



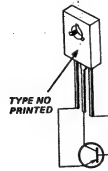
TRANSISTOR, (OTHER)



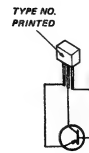
2SA1048



2SA1122
2SA1162
2SA1226
2SA812



2SA1141
2SA1156
2SB649A



TYPE NO.
PRINTED

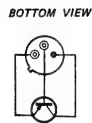
2SA1175



2SA473
2SA768
2SB553

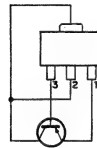


2SA733
2SA844



BOTTOM VIEW

2SA911



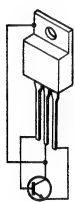
2SB1115A



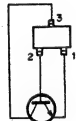
2SB733
2SB734



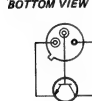
2SB822



2SC1173
2SC2654

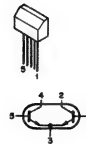


2SC1623
2SC2223
2SC2712
2SC2715
2SC2757
2SC3326N



BOTTOM VIEW

2SC1762



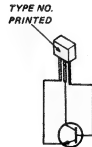
2SC2259



2SC2458
2SC2603
2SC403SP
2SC634SP



2SC2754
2SC2878



TYPE NO.
PRINTED

2SC2785



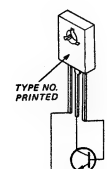
2SC2901



2SC3012



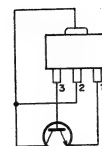
2SD1055



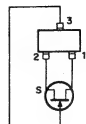
2SD669A



2SD773
2SD774



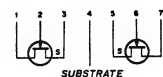
2SD999



2SK209
2SK94



2SK389

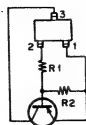


SUBSTRATE

TRANSISTOR, (OTHER)



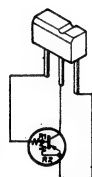
2SK523



DTA114EK (R1=10K, R2=10K)
DTA114TK (R1=10K, R2=∞)
DTA124EK (R1=22K, R2=22K)
DTA144EK (R1=47K, R2=47K)

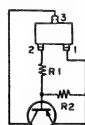


DTA124ES (R1=22K, R2=22K)
DTA124XS (R1=22K, R2=47K)

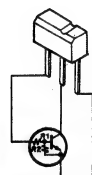


DTA144EF (R1=47K, R2=47K)

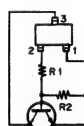
TOP VIEW (SCALE 4/1) DTB123EK (R1=2.2K, R2=2.2K)



DTC124ES (R1=22K, R2=22K)
DTC124XS (R1=22K, R2=47K)



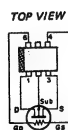
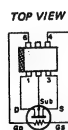
DTC144EF (R1=47K, R2=47K)



DTC144EK (R1=47K, R2=47K)
DTC144WK (R1=47K, R2=22K)

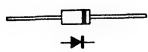


J175

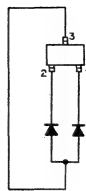


TX429M

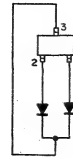
DIODE, (OTHER)



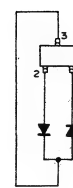
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1S1587
1S2076
1SS119



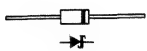
1S2835



1S2837



1SS123



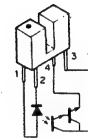
1SS97
1SS99



FC51M
FC52M
FC54M



GL-5HD5 : RED



GP-1L52

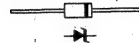
TOP VIEW



LB-402VK : RED



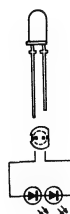
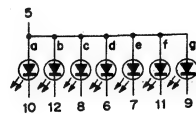
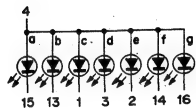
LN25RP : RED
LN35BP : GREEN



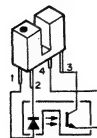
HZ ? 7L
HZ ? 7LL
RD ? 7EB ?
RD ? 7ESB ?



RD ? 7MB



TLG255 : GREEN
TLY255 : YELLOW



TLP801A



TLUG154 : GREEN

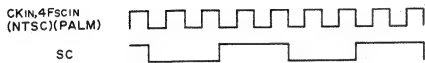
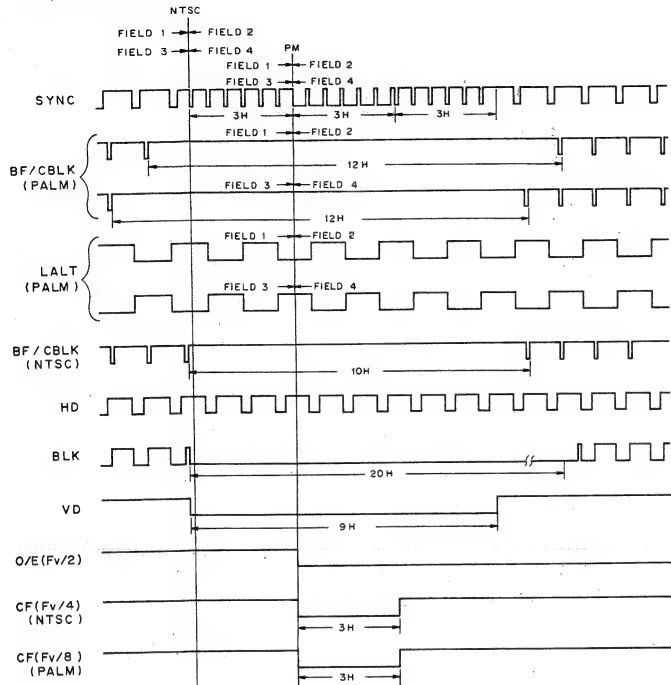
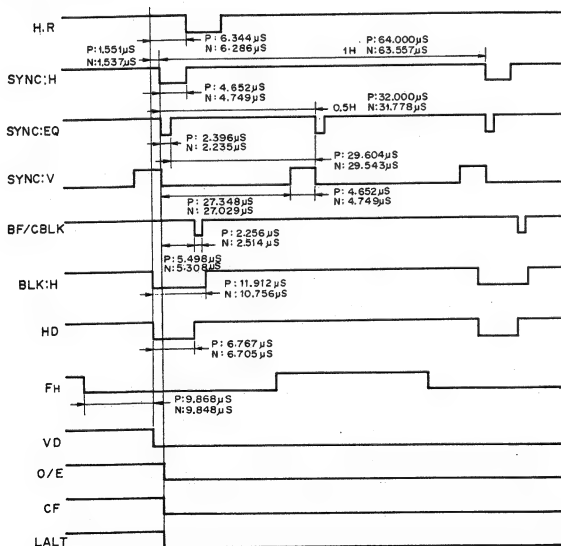
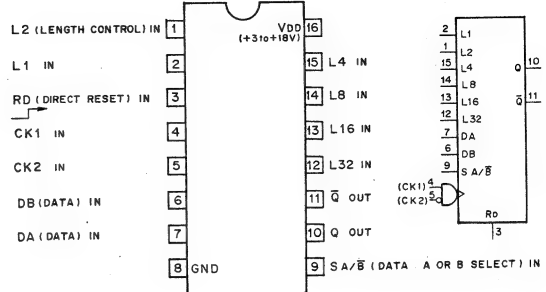


TLUR144 (RED)

等価回路はICメーカーのData Bookに従いました。

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

NTSC, PAL-M (FIELD 2, 4)

P: PAL, SECAM
N: NTSC, PALMHD14557BFP (HITACHI) FLAT PACKAGE
C-MOS 1-TO-64-BIT VARIABLE LENGTH SHIFT REGISTER
— TOP VIEW —

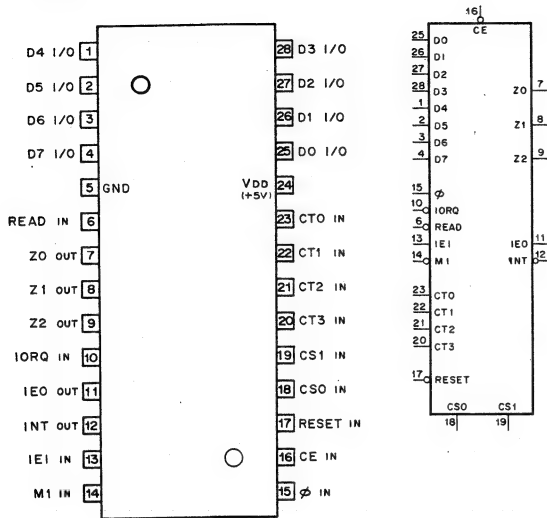
LENGTH SELECT TRUTH TABLE

L32	L16	L8	L4	L2	L1	REGISTER LENGTH
0	0	0	0	0	0	1-BIT
0	0	0	0	0	1	2-BIT
0	0	0	0	1	0	3-BIT
0	0	0	0	1	1	4-BIT
0	0	0	1	0	0	5-BIT
1	1	1	1	0	0	61-BIT
1	1	1	1	0	1	62-BIT
1	1	1	1	1	0	63-BIT
1	1	1	1	1	1	64-BIT

INPUTS				OUTPUT
RD	SA/B	CK1	CK2	Q
0	0	0	0	DB
0	1	0	0	DA
0	0	1	0	DB
0	1	1	0	DA
1	X	X	X	0

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

TMP284C30AP-6 (TOSHIBA)
C-MOS COUNTER TIMER CIRCUIT
— TOP VIEW —

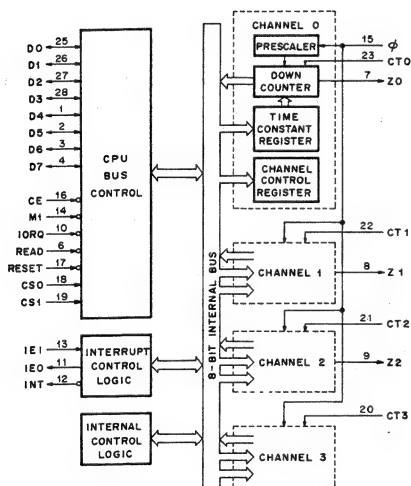


phi : SYSTEM CLOCK
CE : CHIP ENABLE
CS0, CS1 : CHANNEL SELECT
CT0-CT3 : EXTERNAL CLOCK/TIMER TRIGGER
DO-D7 : 3-STATE DATA INPUT/OUTPUT
IEI : INTERRUPT ENABLE INPUT
IEO : INTERRUPT ENABLE OUTPUT
INT : INTERRUPT REQUEST (OPEN DRAIN)
IORQ : I/O REQUEST
M1 : MACHINE CYCLE 1
READ : READ CYCLE STATUS
Z0-Z2 : ZERO COUNT/TIME OUT

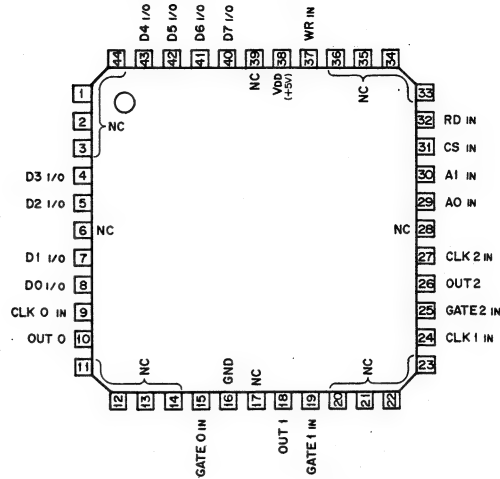
CHANNEL SELECT FUNCTION

CS1	CS0	SELECTED CHANNEL
0	0	0
0	1	1
1	0	2
1	1	3

0: LOW LEVEL
1: HIGH LEVEL



uPD71054G (NEC) FLAT PACKAGE
C-MOS PROGRAMMABLE TIMER COUNTER
— TOP VIEW —



FUNCTION TABLE

INPUTS					FUNCTION
CS	RD	WR	A1	A0	
0	1	0	0	0	Load Counter No. 0
0	1	0	0	1	Load Counter No. 1
0	1	0	1	0	Load Counter No. 2
0	1	0	1	1	Control Word
0	0	1	0	0	Read Counter 0
0	0	1	0	1	Read Counter 1
0	0	1	1	0	Read Counter 2
0	0	1	1	1	No-Operation (HI-Z)
1	X	X	X	X	Disable (HI-Z)
0	1	1	X	X	No-Operation (HI-Z)

D7-D0 : 8-BIT DATA I/O
CLK 0-2 : COUNTER CLOCK
GATE 0-2 : COUNTER GATE
OUT 0-2 : COUNTER OUTPUT
RD : READ COUNTER
WR : WRITE CMD OR DATA
CS : CHIP SELECT
A0, A1 : COUNTER SELECT

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

CONTROL WORD FORMAT

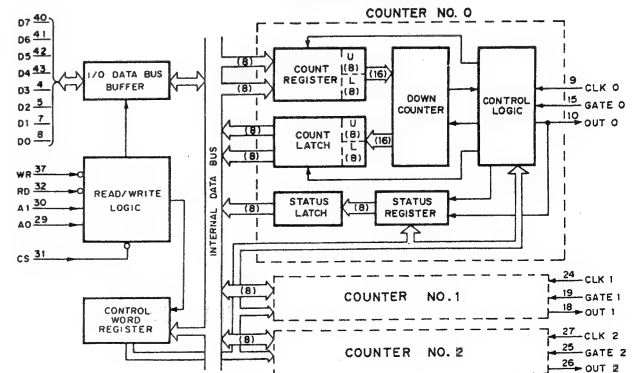
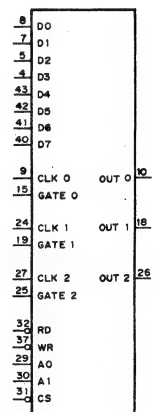
D7	D6	D5	D4	D3	D2	D1	D0
SC1	SC0	RL1	RL0	M2	M1	M0	BCD

BCD	OPERATION
0	16-BIT BINARY
1	BCD(4-DECADE)

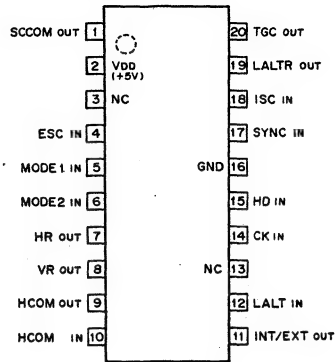
M2	M1	M0	MODE
0	0	0	0
0	0	1	1
X	1	0	2
X	1	1	3
1	0	0	4
1	0	1	5

RL1	RL0	OPERATION
0	0	COUNTER LATCHING
0	1	READ/LOAD LSB ONLY
1	0	READ/LOAD MSB ONLY
1	1	LSB FIRST THEN MSB

SC1	SC0	SELECTED COUNTER
0	0	COUNTER No. 0
0	1	COUNTER No. 1
1	0	COUNTER No. 2
1	1	MULTIPLE LATCH CMD



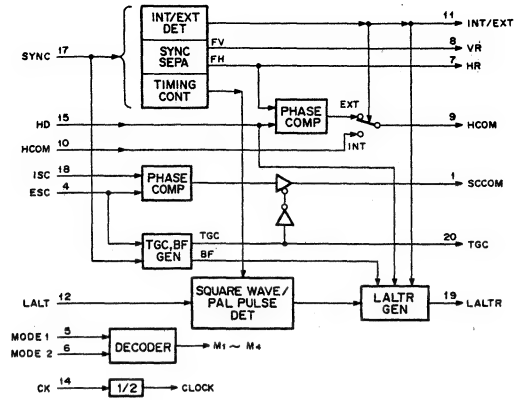
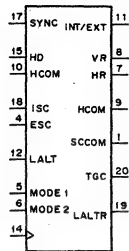
CXD1216M (SONY) FLAT PACKAGE
C-MOS GENLOCK DRIVER
- TOP VIEW -



INPUT		MODE		SYSTEM
MODE1	MODE2			
0	0	M1		PAL-VBS
1	0	M2		PALM-VBS
0	1	M3		PAL, SECAM-VS/SC/LALT
1	1	M4		NTSC-VBS, NTSC-VS/SC PALM-VS/SC/LALT

0; LOW LEVEL
1; HIGH LEVEL

CXD1216M(1/2)



INPUT
CK : 4fsc CLOCK INPUT
ESC : SC/COLOR BURST
HCOM : PHASE COMPARE FROM CXD1217
HD : H DRIVE FROM CXD1217
ISC : SUBCARRIER FROM CXD1217
LALT : LALT FROM REFERENCE SIGNAL GENERATOR
MODE1,2 : SYSTEM SELECT
SYNC : SYNC FROM REFERENCE SIGNAL GENERATOR


OUTPUT
HCOM : PHASE COMPARE HR WITH HD
HR : fH OF SYNC SEPARATE
INT/EXT : INTERNAL/EXTERNAL SPECIFIED
LALTR : LINE CHANGE RESET
SCCOM : PHASE COMPARE ESC WITH ISC
TGC : TRISTATE CONTROL
VR : fV OF SYNC SEPARATE

SECTION 19

SPARE PARTS AND FIXTURE

19-1 PARTS INFORMATION

1.

The shaded and -marked components are critical to safety. Replace only with the same components as specified.

2. Replacement parts supplied from the Sony Parts Center will sometimes have a different shape and outside view from the parts which are used in the unit. This is due to "accommodating improved parts and/or engineering changed" or "standardization of genuine parts".
- This manual's exploded views and electrical spare parts lists indicate the part numbers of "the present standardized genuine parts".
- Regarding engineering part changes by our engineering department, refer to Sony service bulletins and service manual supplements.
3. The parts marked with "s" in the SP column of the exploded views and electrical spare parts lists are normally stocked for replacement purposes. The parts marked with "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.
4. Items with no part number and/or no description are not stocked because they are seldom required for routine service.
5. (T) after a spring description is shown on the exploded views in order to indicate the number of spring turns required for the use.
(example)
Spring, tension (24T); this spring must be cut at its 24th turn for actual use.

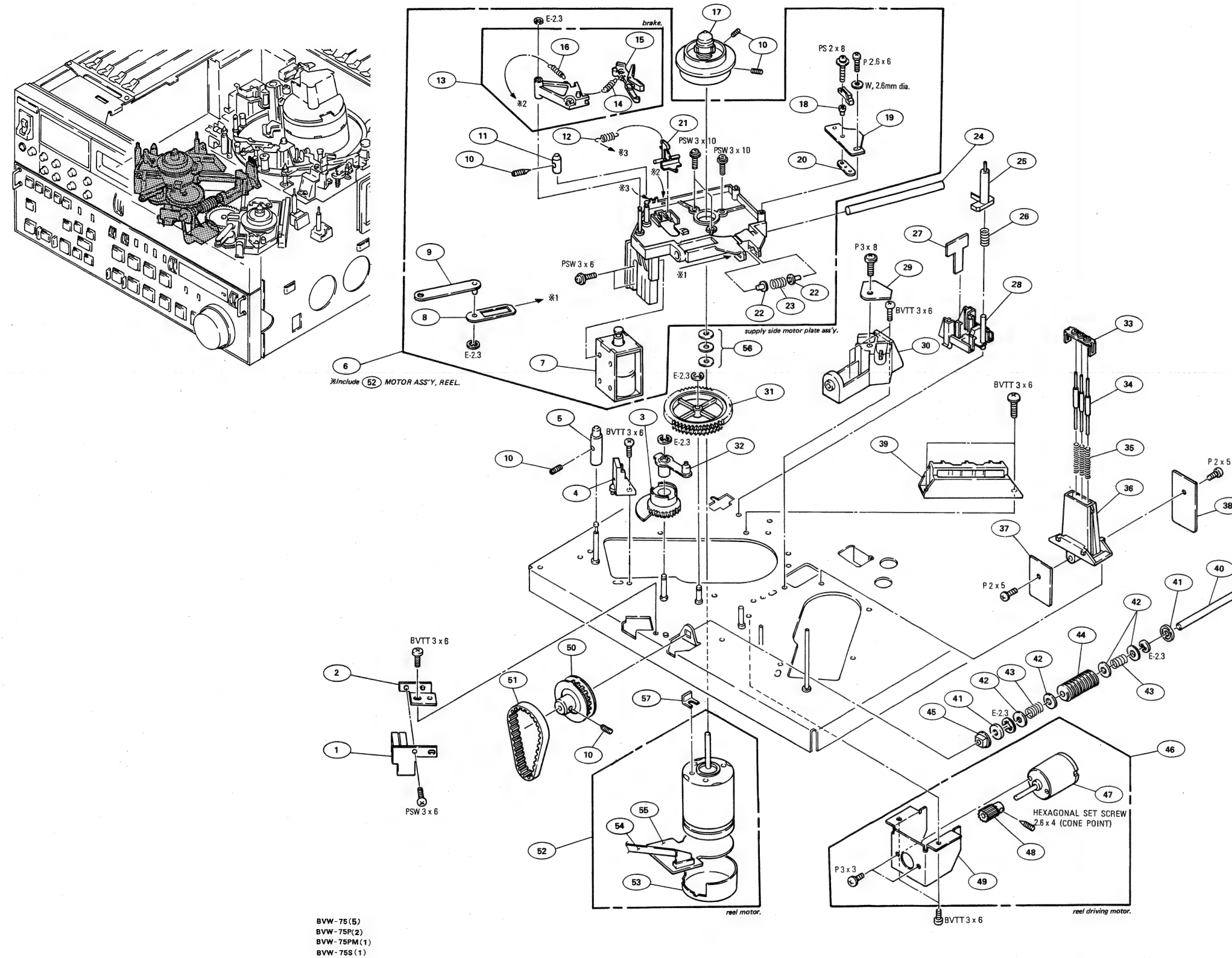
19-2 EXPLODED VIEW

• Exploded views are composed of the following blocks.

1. Supply Side Reel Chassis
 - supply reel table
 - supply motor plate
 - reel motor
 - reel drive motor
 - cassette detector
2. Take-up Side Reel Chassis
 - take-up reel table
 - take-up motor plate
 - reel motor
 - cassette detector
3. Head Drum, Stationary Heads and Tape Guides Block
 - head drum ass'y
 - CTL head
 - full erase head
 - audio/TC heads
 - audio confidence heads
 - tape guide
 - capstan motor
 - slip ring
4. Threading Ring Block
 - threading ring
 - pinch roller
 - tape guide
 - ring sensor
5. T Drawer Arm Block
 - T drawer arm
 - tape beginning sensor
6. Supply Tension Regulator Block
 - supply tension regulator
7. Pinch Press Mechanism Block
 - pinch press mechanism
8. Gear Box Block
 - gear box
9. Function control Chassis Block
 - function control chassis
 - sub function control panel
 - search dial
 - hinge
10. Level Control Chassis Block
 - level control chassis
 - audio level meter

REEL CHASSIS (1) REEL CHASSIS (1)

Supply Side Reel Chassis

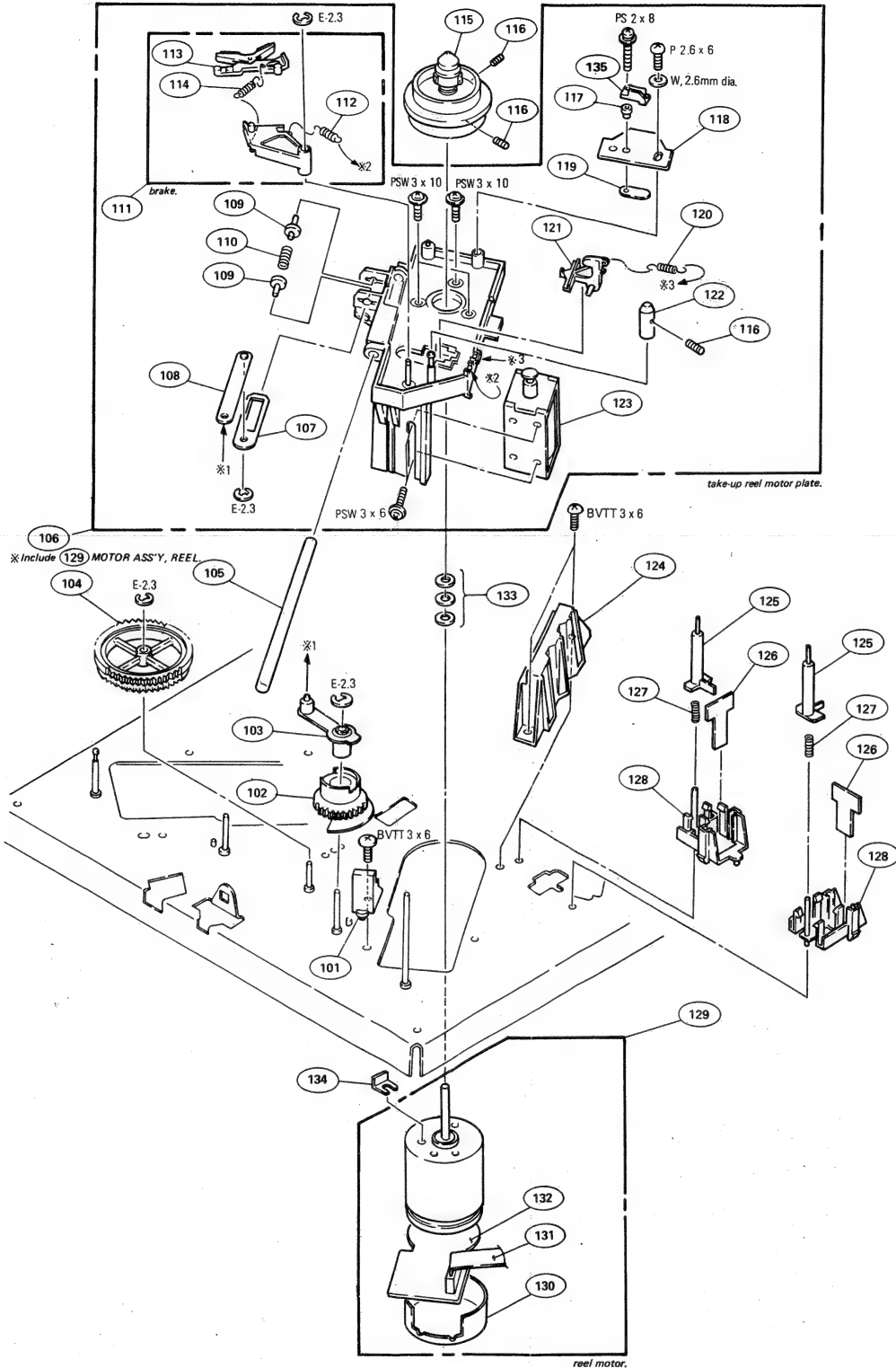
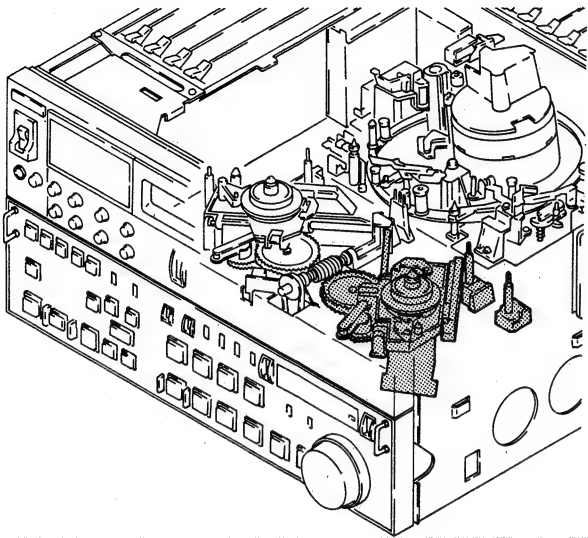


No.	Part No.	SP	Description
1	1-622-599-11	o	PRINTED CIRCUIT BOARD, PTC-21
2	3-717-221-01	o	BRACKET, PTC-21
3	3-717-400-01	s	GEAR, CRANK FLAT
4	3-717-205-01	o	HOLDER (B), SHAFT
5	3-717-222-01	s	CAP (L), CS SHAFT
6	A-6737-174-A	s	PLATE (S) ASS'Y, MOTOR
7	1-454-417-41	s	SOLENOID, PLUNGER
8	3-717-230-01	o	BRACKET, LIMITER
9	X-3717-204-1	o	ARM (B) ASS'Y, CRANK
10	3-701-506-01	s	SET SCREW, DOUBLE POINT 3 x 4
11	3-717-266-01	o	CAP (S), CG SHAFT
12	3-535-532-01	s	SPRING TENSION (6T)
13	A-6741-066-A	o	BRAKE ASS'Y
14	3-648-217-00	o	SPRING TENSION
15	X-3717-205-1	s	LINING ASS'Y
16	3-307-381-01	s	SPRING, TENSION
17	X-3717-207-1	s	TABLE ASS'Y, REEL
18	3-717-232-01	o	SHAFT, FITTING, MR SENSOR
19	1-622-606-11	o	PRINTED CIRCUIT BOARD, DE-15
20	3-717-233-01	o	BRACKET, DE-15
21	3-717-450-01	o	ARM, BRAKE RELEASE
22	3-717-231-01	o	HOLDER, LIMITER
23	3-491-247-00	s	SPRING, COMPRESSION
24	3-717-223-01	s	SHAFT, SLIDE
25	3-717-218-01	o	LEVER, MR
26	4-880-426-00	o	SPRING, COMPRESSION
27	1-622-600-11	o	PRINTED CIRCUIT BOARD, PTC-23
28	3-717-462-01	o	HOLDER, REC INHIBIT
29	3-717-224-01	s	RETAINER, SHAFT, SLIDE
30	3-717-208-01	o	HOLDER (A), SHAFT
31	3-717-399-01	s	WHEEL, W
32	X-3717-202-1	o	ARM ASS'Y, CRANK
33	3-717-207-01	o	COVER, M/C DETECTION HOLDER
34	3-717-206-01	s	LEVER, M/C DETECTION
35	3-554-202-01	o	WASHER (A), WORM
36	3-717-426-01	s	HOLDER, M/C DETECTION
37	1-622-601-11	o	PRINTED CIRCUIT BOARD, PTC-36
38	1-622-598-11	o	PRINTED CIRCUIT BOARD, PTC-20
39	3-717-398-01	o	TABLE, SLIDE
40	3-717-211-01	o	SHAFT, WORM
41	3-717-213-01	o	WASHER (A), WORM
42	3-717-212-01	o	WASHER (B), WORM
43	3-659-324-00	s	SPRING, COMPRESSION
44	3-717-210-01	s	WORM
45	3-717-214-01	o	BEARING, WORM
46	A-6737-173-A	o	MOTOR ASS'Y, REEL DRIVING
47	8-835-179-01	s	MOTOR, DC MCB2B15
48	3-717-220-01	o	PULLEY (S), TIMING
49	3-717-219-01	o	BRACKET, MOTOR
50	X-3717-201-1	o	PULLEY (L) ASS'Y, TIMING
51	3-717-542-01	s	BELT, TIMING
52	A-6737-175-A	s	MOTOR ASS'Y, REEL
53	3-675-826-00	o	COVER, SHIELD, RM
54	1-559-266-11	o	WIRE, FLEXIBLE CARD
55	1-622-605-11	o	PRINTED CIRCUIT BOARD, RM-40
56	3-701-441-01	s	WASHER, POLY 4MM DIA. 0.13T
57	3-701-441-11	s	WASHER, POLY 4MM DIA. 0.25T
	3-701-441-21	s	WASHER, POLY 4MM DIA. 0.5T
	3-717-625-01	s	SPACER

REEL CHASSIS (2)

REEL CHASSIS (2)

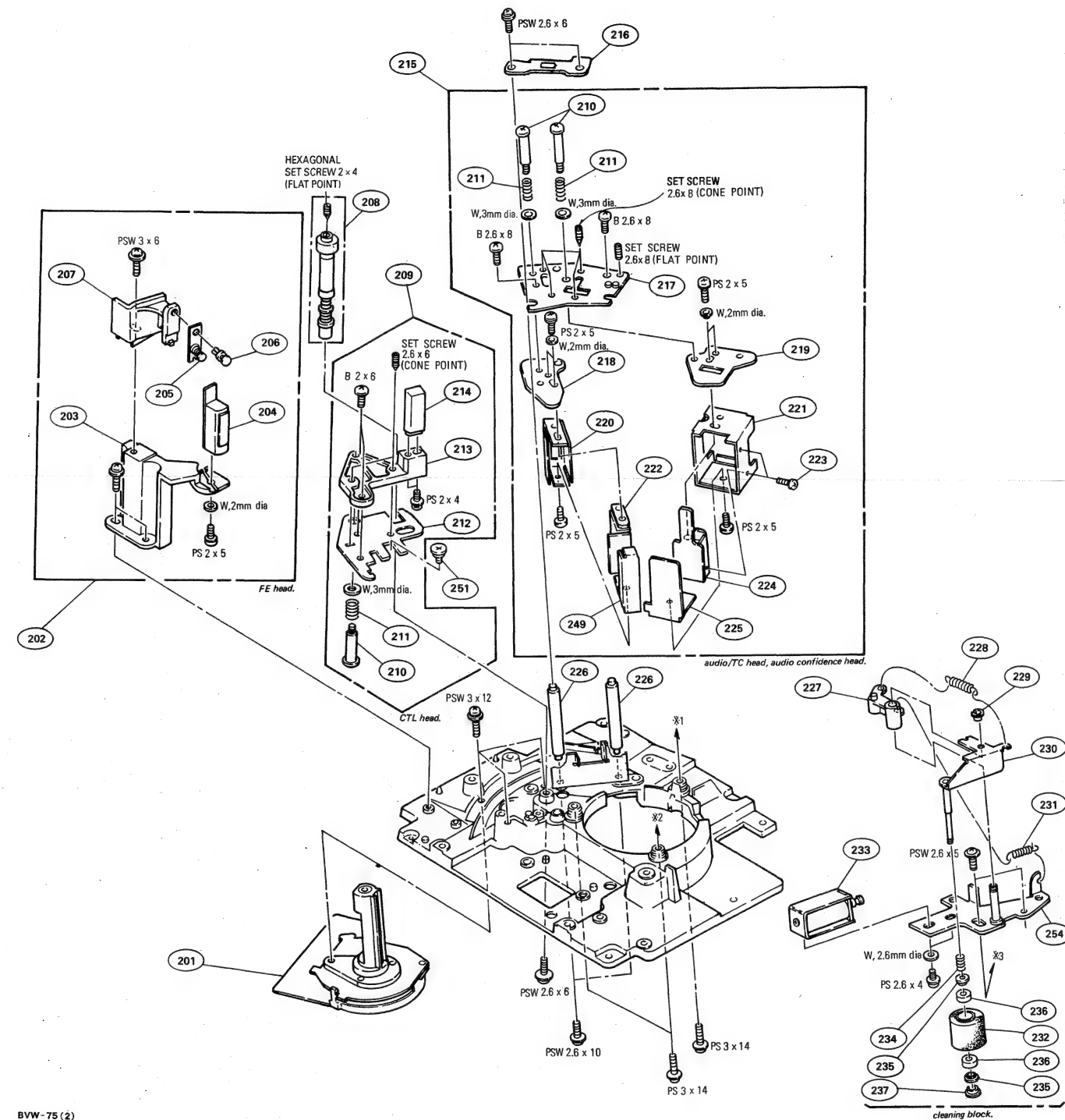
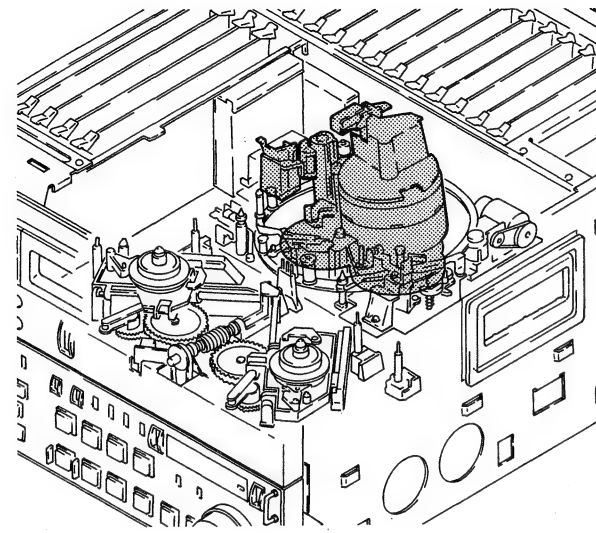
Take-up Side Reel Chassis



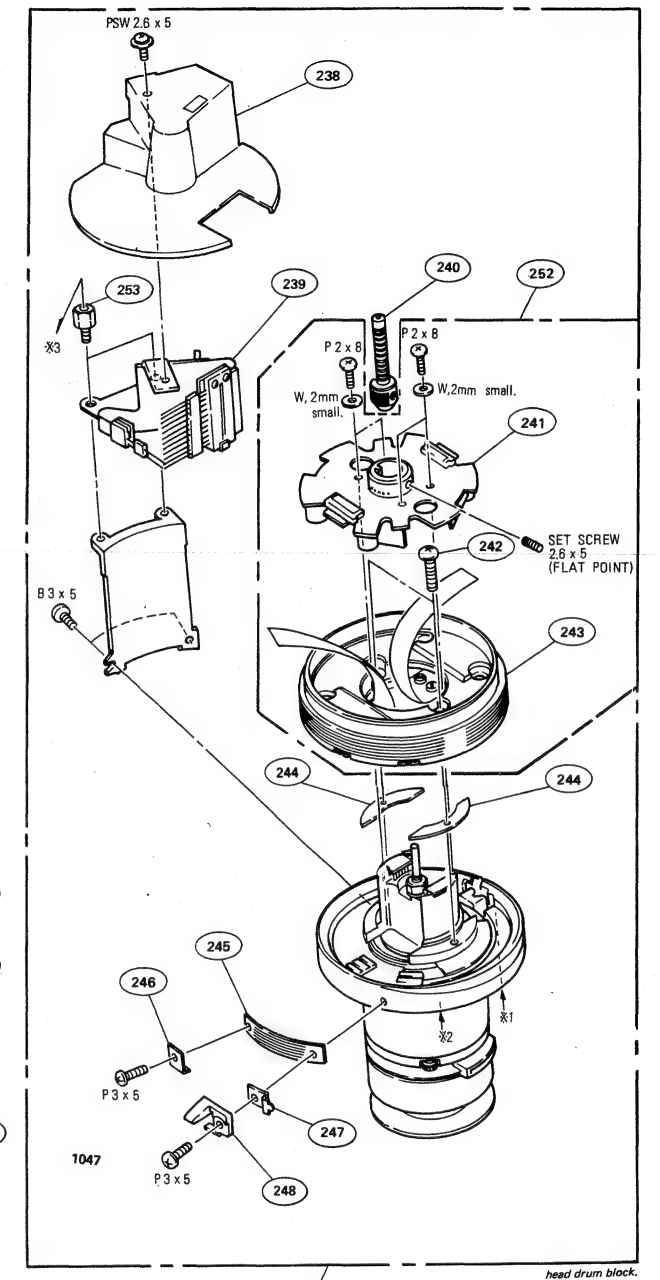
BVW-75(5)
BVW-75P(2)
BVW-75PM(1)
BVW-75S(1)

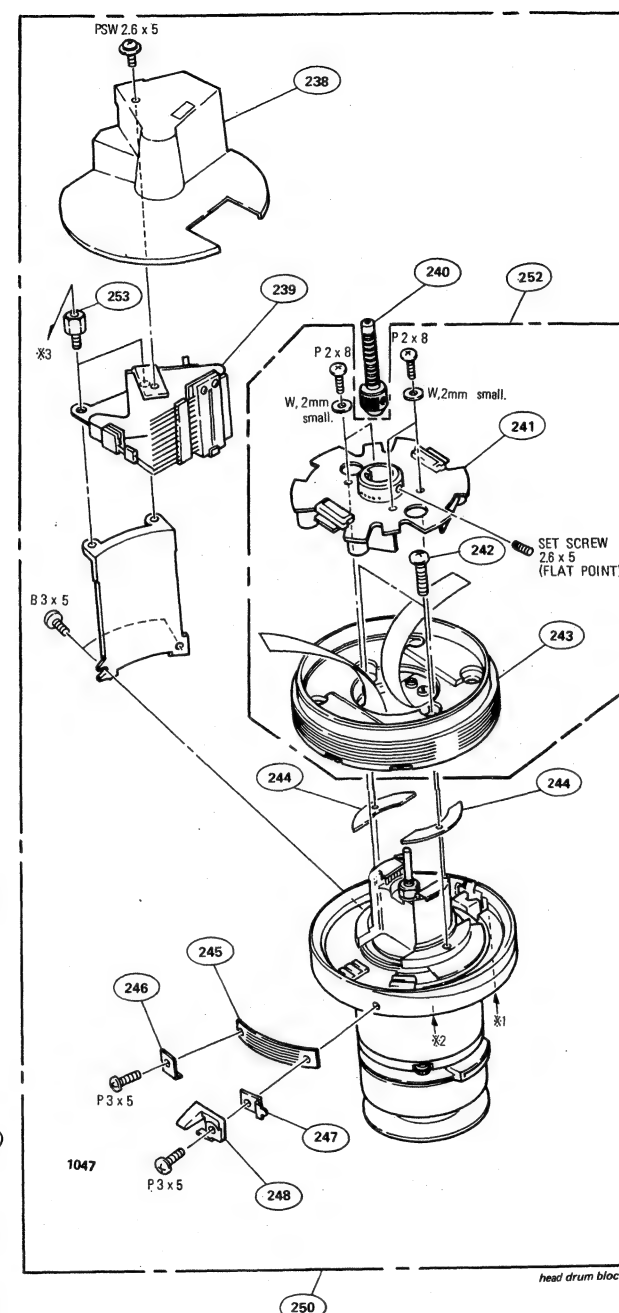
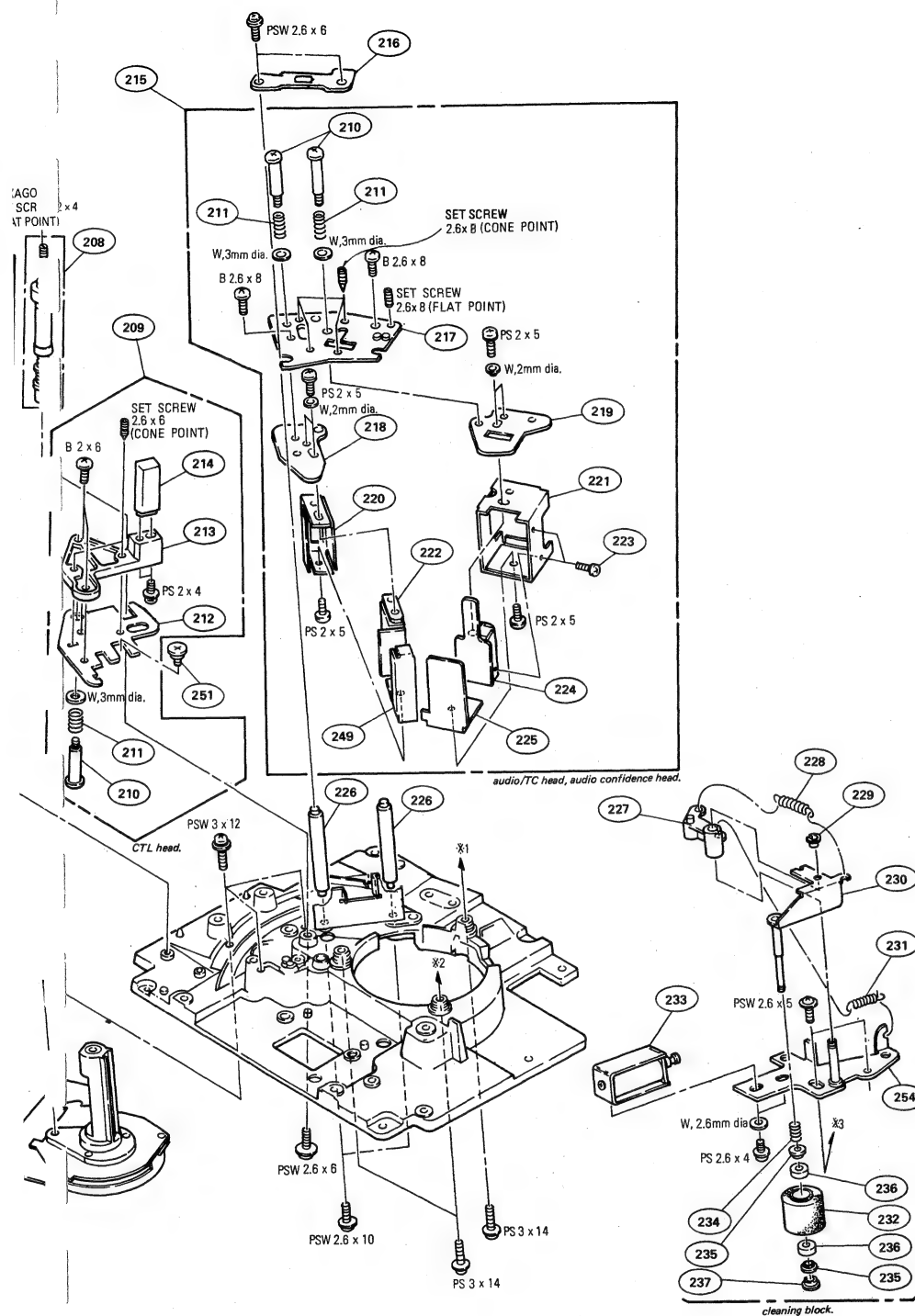
No.	Part No.	SP	Description
101	3-717-205-01	o	HOLDER (B), SHAFT
102	3-717-400-01	s	GEAR, CRANK FLAT
103	X-3717-202-1	o	ARM ASS'Y, CRANK
104	3-717-399-01	s	WHEEL, W
105	3-717-223-01	s	SHAFT, SLIDE
106	A-6737-176-A	s	PLATE (T) ASS'Y, MOTOR
107	3-717-230-01	o	BRACKET, LIMITER
108	X-3717-204-1	o	ARM (B) ASS'Y, CRANK
109	3-717-231-01	o	HOLDER, LIMITER
110	3-491-247-00	s	SPRING, COMPRESSION
111	A-6741-066-A	o	BRAKE ASS'Y
112	3-307-381-01	s	SPRING, TENSION
113	X-3717-205-1	s	LINING ASS'Y
114	3-648-217-01	o	SPRING, TENSION
115	X-3717-207-1	s	TABLE ASS'Y, REEL
116	3-701-506-01	s	SET SCREW, DOUBLE POINT 3 x 4
117	3-717-232-01	o	SHAFT, FITTING, MR SENSOR
118	1-622-606-11	o	PRINTED CIRCUIT BOARD, DE-15
119	3-717-233-01	o	BRACKET, DE-15
120	3-535-532-01	s	SPRING, TENSION
121	3-717-450-01	o	ARM, BRAKE RELEASE
122	3-717-266-01	o	CAP (S), CG SHAFT
123	1-454-417-31	s	SOLENOID, PLUNGER
124	3-717-398-01	o	TABLE, SLIDE
125	3-717-218-01	o	LEVER, MR
126	1-622-600-11	o	PRINTED CIRCUIT BOARD, PTC-23
127	4-880-426-00	o	SPRING, COMPRESSION
128	3-717-462-01	o	HOLDER, REC INHIBIT
129	A-6737-175-A	s	MOTOR ASS'Y, REEL
130	3-675-826-01	o	COVER, SHIELD, RM
131	1-559-266-11	o	WIRE, FLEXIBLE CARD
132	1-622-605-11	o	PRINTED CIRCUIT BOARD, RM-40
133	3-701-441-01	s	WASHER. POLY 4MM DIA. 0.13T
	3-701-441-11	s	WASHER. POLY 4MM DIA. 0.25T
	3-701-441-21	s	WASHER. POLY 4MM DIA. 0.5T
134	3-717-625-01	s	SPACER
135	1-807-683-11	s	RESISTOR ELEMENT

Head Drum, Stationary Heads and Tape Guides Block



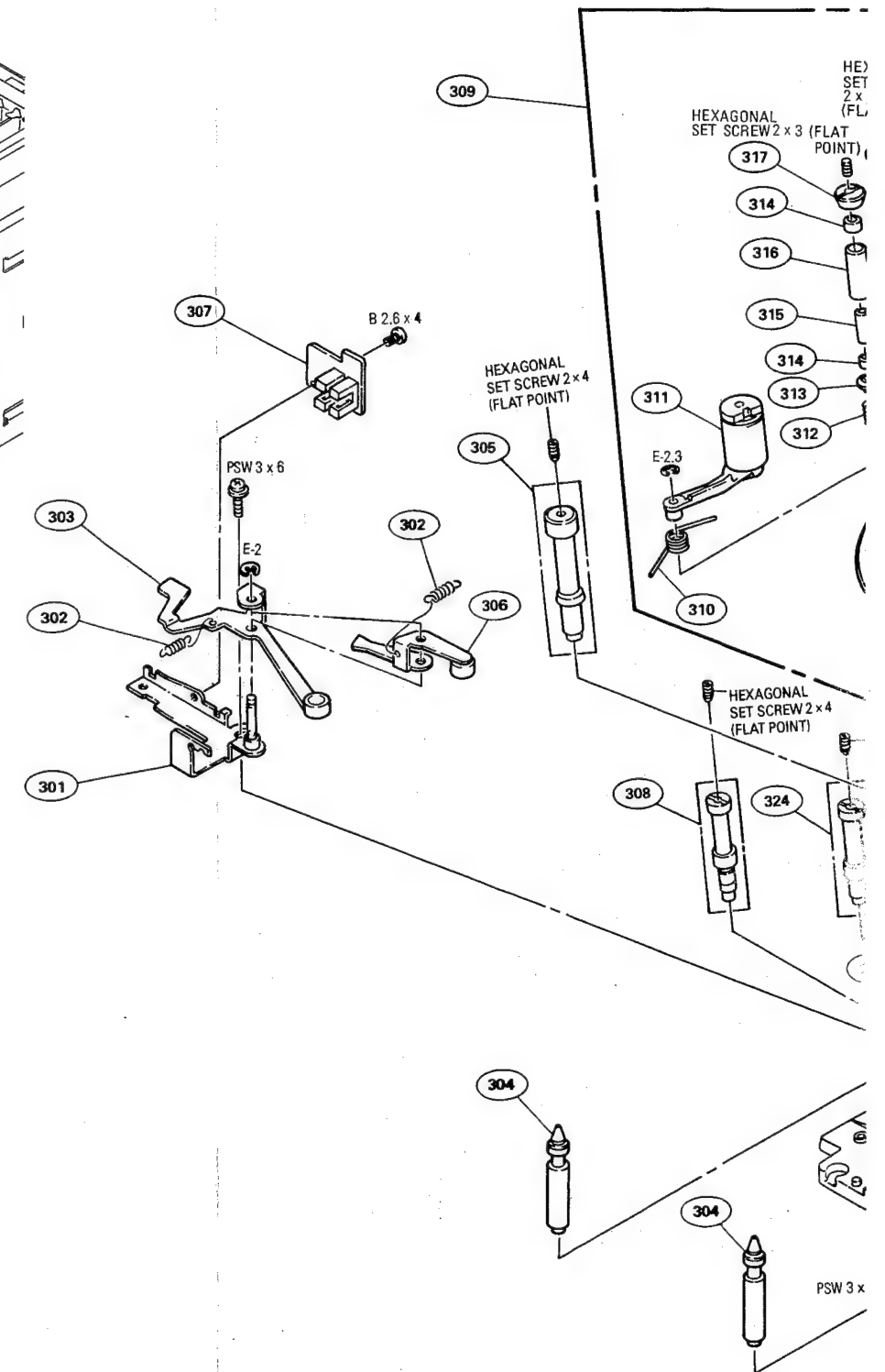
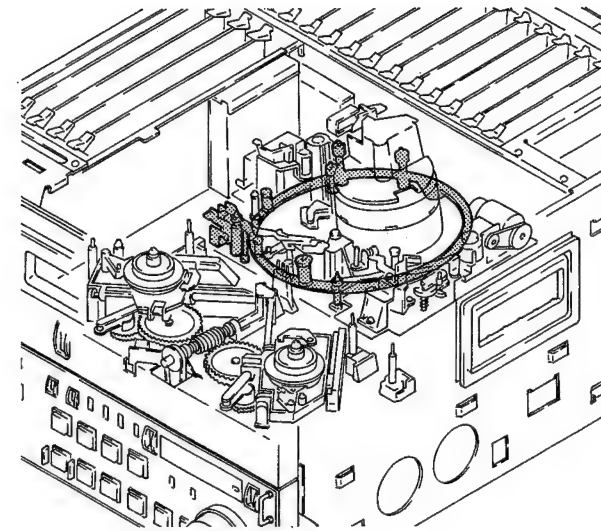
BVW-75 (2)
BVW-75P (2)
BVW-75PM (1)
BVW-75S (1)





No.	Part No.	SP	Description
201	8-835-259-02	s	MOTOR, DC BHF-1918A
202	A-6736-062-B	s	HEAD ASS'Y, FE
203	3-717-402-01	o	DECK, FE
204	8-825-770-72	s	HEAD, FE EF291-21
205	1-543-316-21	s	HEAD, SENSING (SMALL TYPE)
206	2-279-715-01	s	RIVET, NYLON
207	3-717-272-01	o	HOLDER, S SENSOR
208	A-6746-027-A	s	ROLLER (TG 1N) ASS'Y, TAPE
209	A-6736-061-A	o	HEAD ASS'Y CTL
210	3-437-173-02	o	SCREW, HEAD ADJUSTING
211	3-653-350-00	s	SPRING, COMPRESSION
212	3-717-522-01	o	BASE, CTL HEAD
213	3-675-842-00	o	PLATE, ADJUSTMENT, CTL
214	8-825-554-73	s	HEAD, CTL PS244-21A
215	A-6736-060-A	o	HEAD ASS'Y AU
216	3-717-243-03	o	PLATE, ADJUSTMENT, AT HEAD
217	3-717-238-01	o	DECK, HEAD
218	3-717-236-02	o	BRACKET, CF HEAD
219	3-717-234-02	o	BRACKET, AT HEAD
220	3-717-521-01	o	CASE, SHIELD, CF
221	3-717-235-01	o	CASE (1), SHIELD, AT
222	8-825-771-11	s	HEAD AUDIO CONFI. PS244-2103C
223	3-703-502-41	s	SCREW
224	8-825-623-21	s	HEAD EPS244-2103B
225	3-717-237-01	o	CASE (2), SHEILD, AT
226	3-675-804-02	o	BRACKET, ADJUSTMENT PLATE
227	3-680-839-01	o	LEVER (2), C
228	3-542-475-00	s	SPRING, TENSION
229	3-703-074-00	s	CAP 3, SHAFT
230	X-3675-854-1	o	LEVER ASS'Y, C
231	3-140-263-XX	s	SPRING, TENSION (23T)
232	X-3675-858-1	s	ROLLER SUB ASS'Y, C
233	1-454-372-11	s	SOLENOID, PLUNGER
234	4-879-762-00	s	SPRING, COMPRESSION
235	3-655-966-00	s	SPACER, STEP
236	3-669-443-00	s	BEARING, BALL (NO FLANGE)
237	3-703-075-00	s	CAP 2, SHAFT
238	3-717-131-01	o	COVER, BRUSH
239	A-6050-645-A	s	BRUSH ASS'Y
240	A-6050-649-A	s	RING ASS'Y, SLIP
241	A-6050-628-A	s	PC BOARD (RP) ASS'Y, PA-68
242	3-683-825-01	s	SCREW (M3 x 10)
243	A-6762-314-A	s	UPPER DRUM ASS'Y, DBR-01-R
244	3-683-828-01	s	SPACER, FLANGE (T=0.01MM)
	3-683-828-11	s	SPACER, FLANGE (T=0.03MM)
	3-683-828-21	s	SPACER, FLANGE (T=0.1MM)
245	1-586-633-00	s	DETECTOR, DEW
246	3-655-631-00	o	TERMINAL, GROUND
247	3-675-701-00	o	TERMINAL BOARD
248	3-675-739-00	o	SPACER, INSULATING (2)
249	3-717-523-01	o	PLATE, SHIELD, CF
250	A-6050-504-A	s	HEAD DRUM ASS'Y, DBH-01A-R
251	2-236-956-00	s	SCREW, STEP
252	A-6762-403-A	s	UPPER DRUM ASS'Y, DBR-01A-R
253	3-717-106-01	o	SPACER
254	X-3675-855-1	o	BASE ASS'Y, C ROLLER

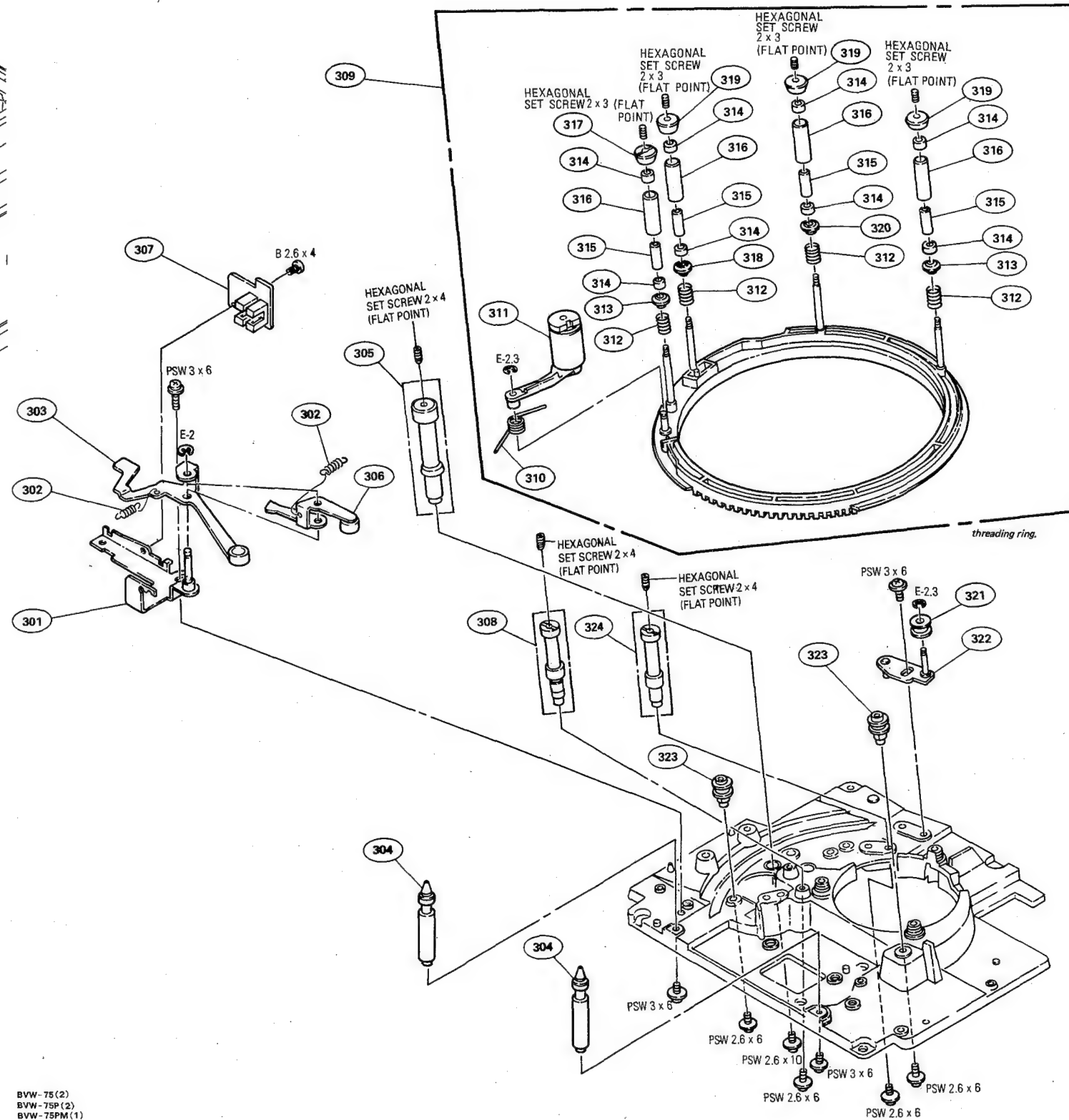
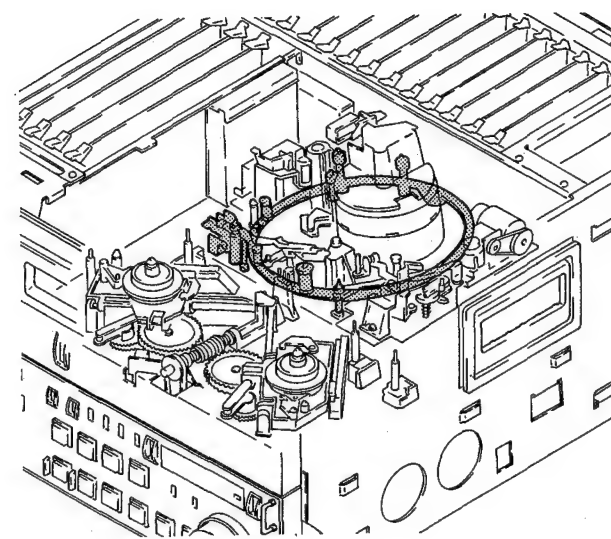
Threading Ring Block



BVW-75 (2)
BVW-75P (2)
BVW-75PM (1)
BVW-75S (1)

THREADING RING THREADING RING

Threading Ring Block

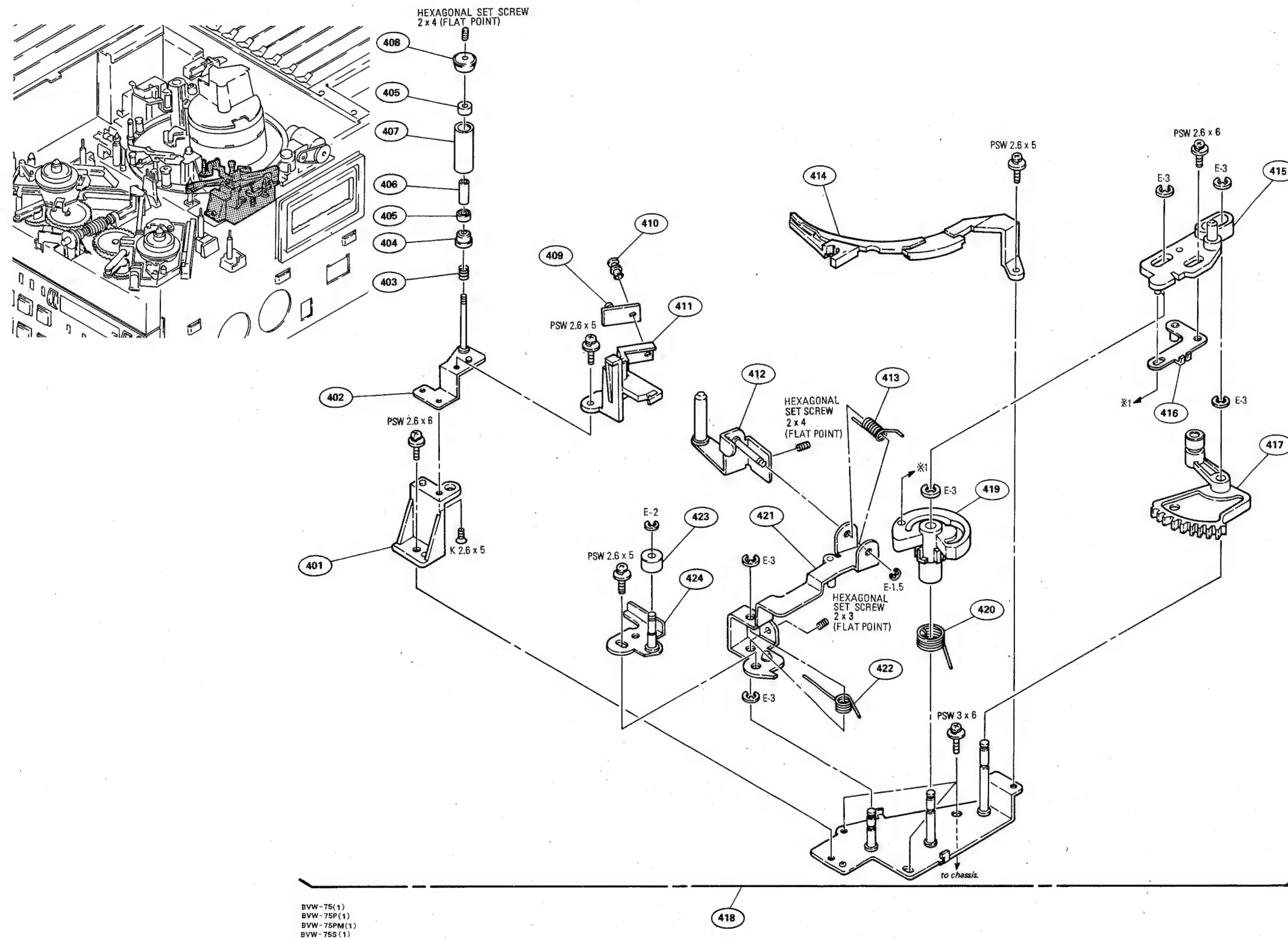


BVW-75(2)
BVW-75P(2)
BVW-75PM(1)
BVW-75S(1)

No.	Part No.	SP	Description
301	X-3717-210-1	o	BRACKET ASS'Y, RING SENSOR
302	3-533-373-00	s	SPRING, TENSION
303	X-3717-211-1	o	LEVER ASS'Y, TH END
304	3-717-242-01	o	SHAFT, CG
305	A-6746-030-C	s	ROLLER (TG4) ASS'Y, TAPE
306	X-3717-212-1	o	LEVER ASS'Y, TH.B END
307	1-622-597-11	o	PRINTED CIRCUIT BOARD, PTC-15
308	A-6746-028-C	s	ROLLER (TG2) ASS'Y, TAPE
309	A-6750-214-D	o	RING ASS'Y, LOADING
310	3-717-268-01	s	SPRING
311	X-3717-215-3	s	ARM ASS'Y, PINCH ROLLER
312	3-637-331-00	s	SPRING, COMPRESSION (L)
313	3-680-812-00	s	FLANGE, LOWER
314	3-669-443-00	s	BEARING, BALL (NO FLANGE)
315	3-680-809-00	s	RETAINER, BEARING
316	3-680-810-00	s	ROLLER
317	3-717-269-01	s	FLANGE, PRECEDING GUIDE
318	3-717-270-01	s	FLANGE (A), LOWER
319	3-717-267-01	s	FLANGE, UPPER
320	3-717-271-01	s	FLANGE (B), LOWER
321	3-675-866-00	o	ROLLER, RING
322	X-3717-208-1	o	ROLLER (B) SUB ASS'Y, RING
323	X-3675-809-0	o	ROLLER (A) ASS'Y, RING
324	A-6746-029-D	s	ROLLER (TG3) ASS'Y, TAPE

T	DRAWER	ARM	T	DRAWER	ARM
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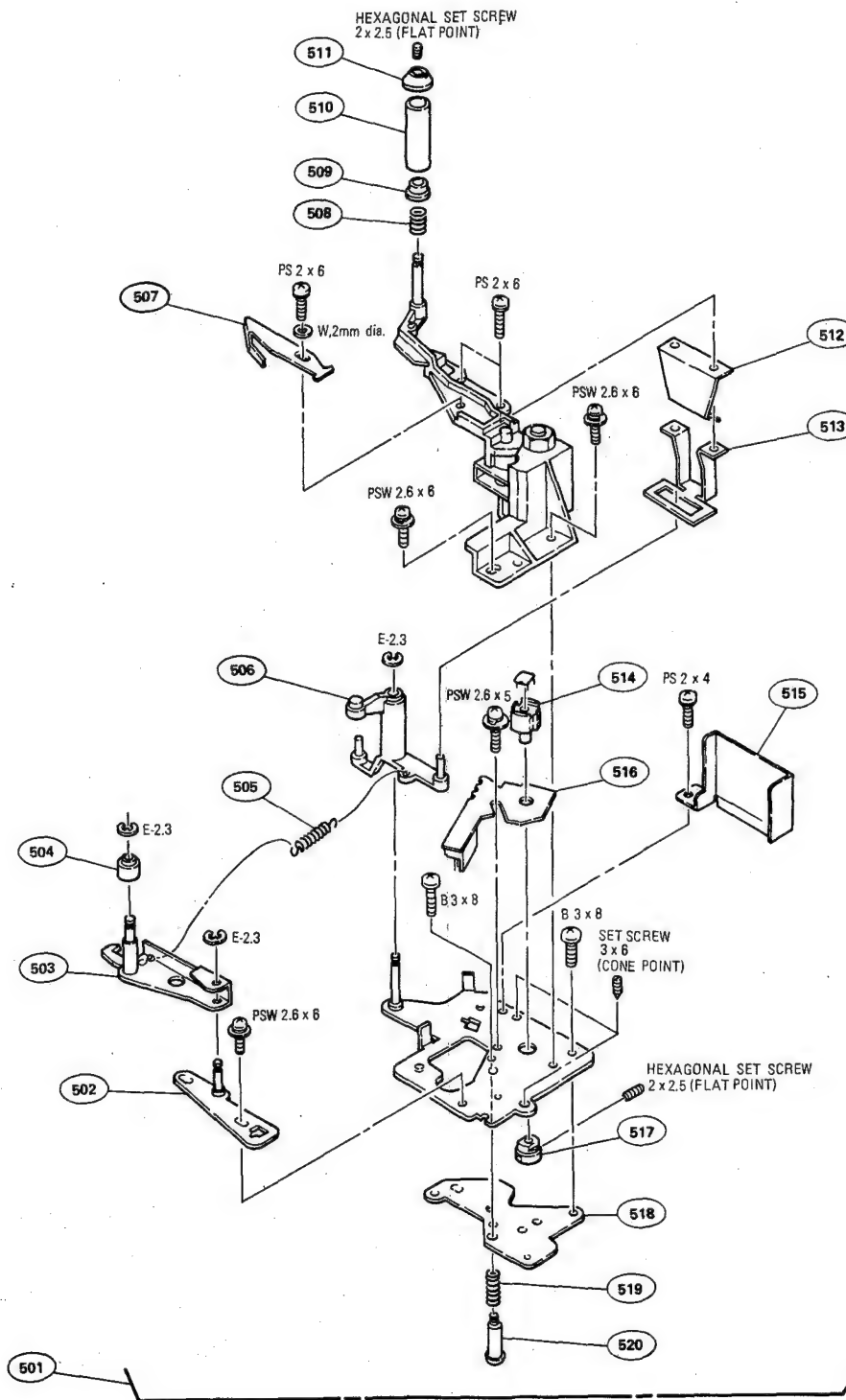
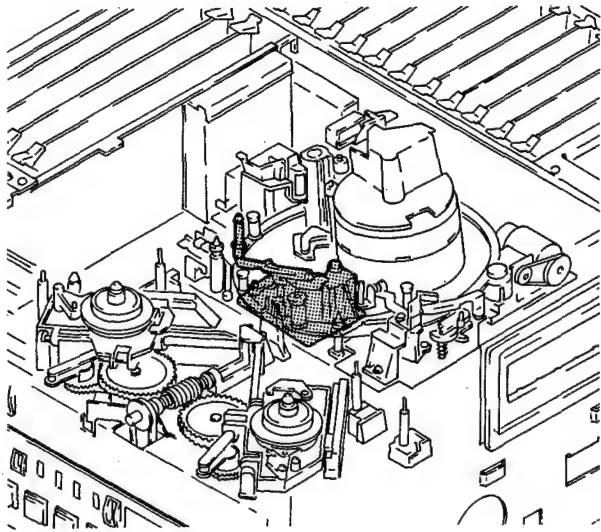
T Drawer Arm Block



No.	Part No.	SP	Description
401	3-717-524-01	o	BRACKET, T ROLLER ASS'Y
402	X-3717-224-1	o	BASE ASS'Y, T ROLLER
403	2-618-901-00	o	SPRING
404	3-717-293-01	s	FLANGE, LOWER
405	3-669-443-00	s	BEARING, BALL (NO FLANGE)
406	3-717-294-01	o	RETAINER, BEARING
407	3-717-292-01	s	ROLLER, GUIDE
408	3-717-267-01	s	FLANGE, UPPER
409	1-543-316-21	s	HEAD, SENSING (SMALL TYPE)
410	2-279-715-01	s	RIVET, NYLON
411	3-717-537-01	o	HOLDER, SENSOR
412	X-3717-222-1	s	GUIDE ASS'Y, SLANT
413	3-717-284-01	o	SPRING (SLANT GUIDE)
414	3-717-407-01	s	RETAINER, PINCH
415	3-717-536-01	o	SLIDER
416	X-3717-223-1	o	PLATE ASS'Y, ADJUSTMENT, SLANT
417	X-3717-250-2	o	GEAR (1) ASS'Y, T
418	A-6746-047-C	s	DRAWER ASS'Y, T
419	3-717-406-01	o	GEAR (2), T
420	3-717-300-01	o	SPRING (T GEAR 2)
421	X-3717-239-1	o	ARM ASS'Y, T
422	3-717-299-01	o	SPRING
423	3-717-283-01	o	ROLLER (2)
424	X-3717-221-1	o	PLATE ASS'Y, ADJUSTMENT

SUPPLY TENSION REGULATOR

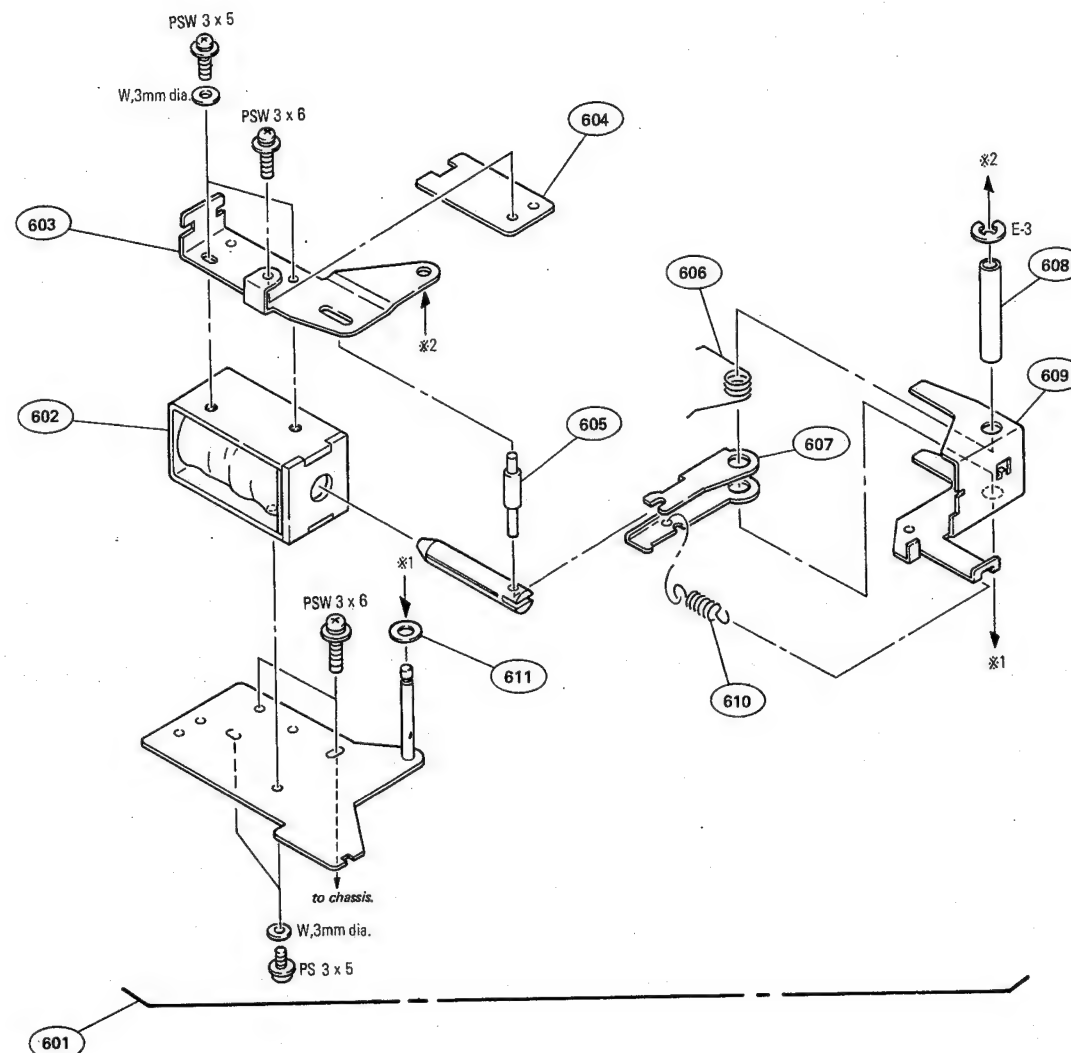
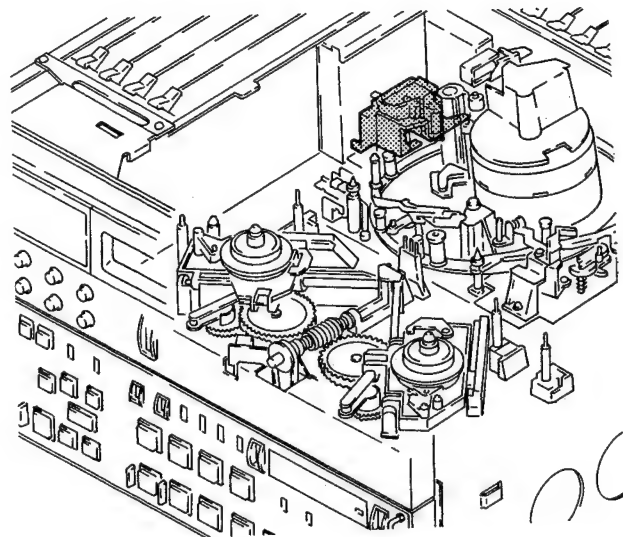
Supply Tension Regulator Block



BVW-75(1)
BVW-75P(1)
BVW-75PM(1)
BVW-75S(1)

No.	Part No.	SP	Description
501	A-6742-061-A	s	ARM ASS'Y, S TENSION
502	X-3717-219-1	o	HOOK ASS'Y, TENSION REGULATOR
503	X-3717-220-1	o	ARM ASS'Y, TENSION REGULATOR
504	3-717-253-01	s	ROLLER
505	3-680-860-01	s	SPRING, TENSION (POWER TENSION)
506	X-3717-218-1	o	ARM ASS'Y, RETURN
507	3-717-277-02	o	PLATE, ADJUSTMENT, RETURN
508	2-618-901-00	o	SPRING
509	3-677-749-03	s	RETAINER, B
510	X-3675-851-0	s	ROLLER ASS'Y, TR
511	3-677-752-00	s	NUT, ADJUSTMENT, T
512	3-675-872-00	o	SPRING, LEAF
513	3-717-276-01	o	PROTECTOR
514	3-680-830-01	s	HOLDER, DME
515	3-675-885-02	o	PLATE, SHIELD, T-DME
516	1-611-279-13	o	PRINTED CIRCUIT BOARD, TR-18
517	3-680-831-00	o	COLLAR, DME
518	3-717-278-01	o	BRACKET, TR
519	3-653-350-00	s	SPRING, COMPRESSION
520	3-437-173-02	o	SCREW, HEAD ADJUSTING

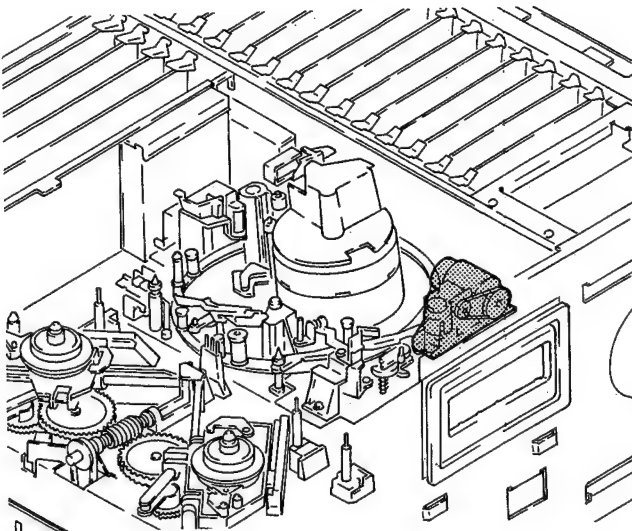
Pinch Press Mechanism Block

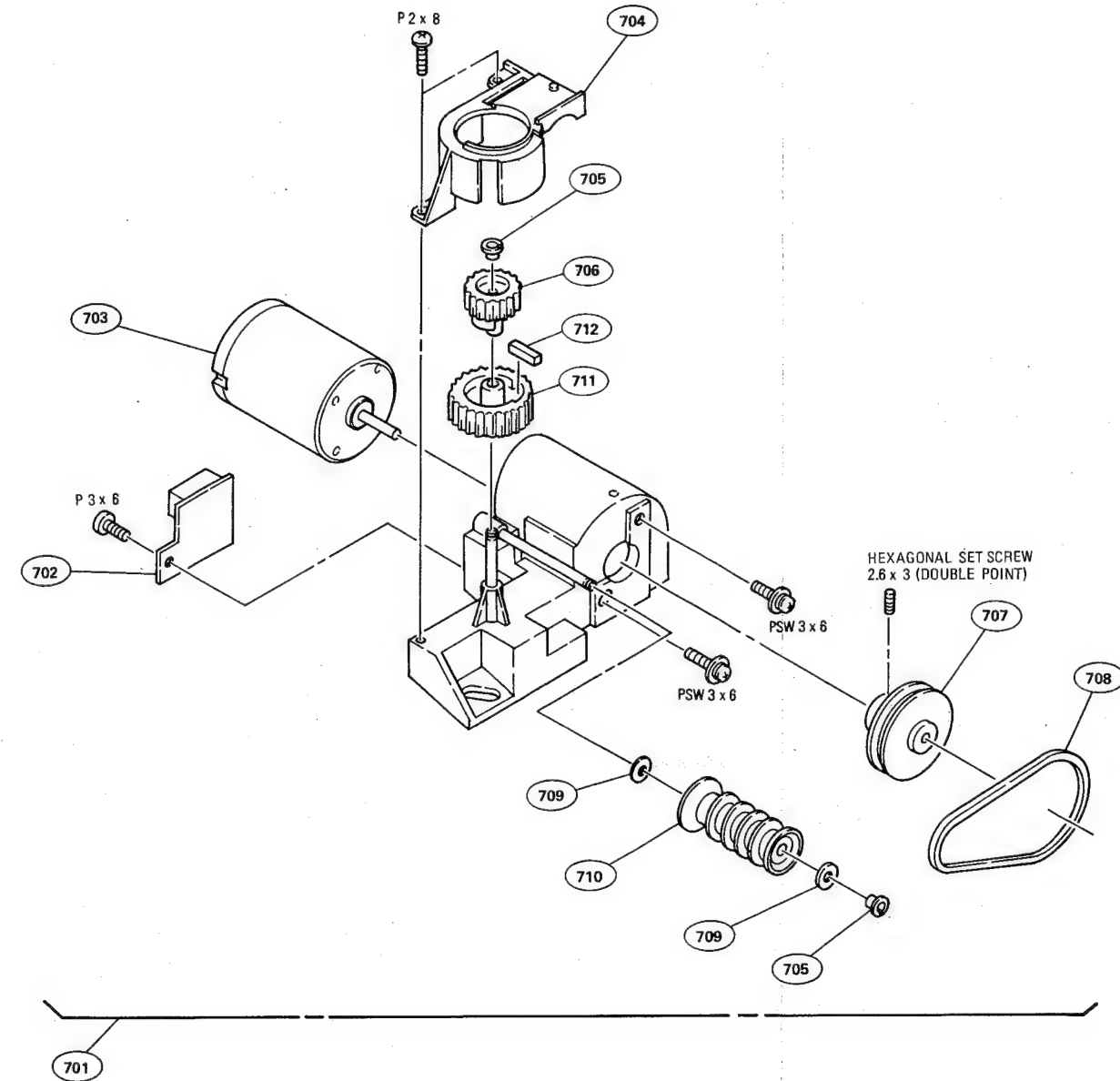
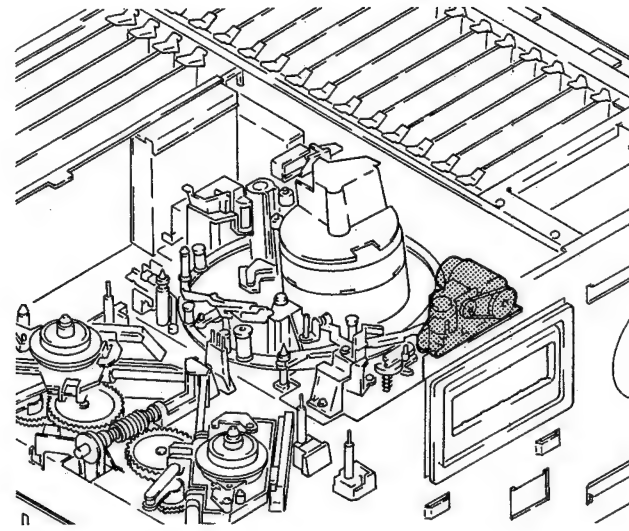


BVW-75(1)
 BVW-75P(1)
 BVW-75PM(1)
 BVW-75S(1)

No.	Part No.	SP	Description
601	A-6749-117-C	o	PRESS ASS'Y, PINCH
602	1-454-338-00	s	SOLENOID, PLUGER
603	3-717-249-01	o	STOPPER, P
604	1-622-596-11	o	PRINTED CIRCUIT BOARD, PD-35
605	3-717-250-02	o	SHAFT, JOINT, P
606	3-717-248-01	o	SPRING
607	3-717-247-01	o	LIMITER, P
608	3-653-382-01	o	SPACER (4 x 25)
609	3-717-246-01	o	LEVER, PRESS, P
610	3-537-674-03	s	SPRING, TEMSION
611	3-701-441-21	s	WASHER POLY, 4MM DIA. 0.5T

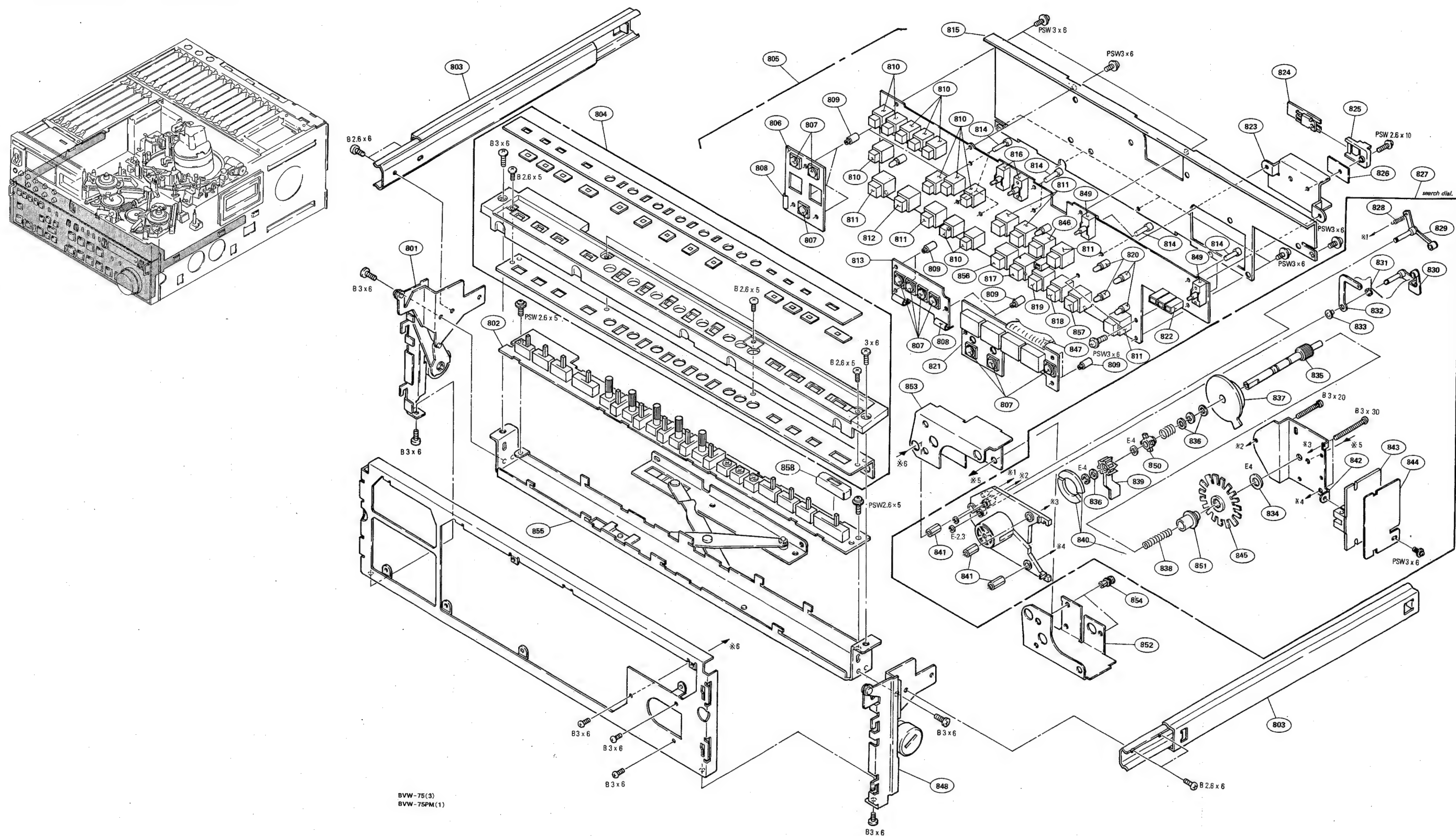
Gear Box Block





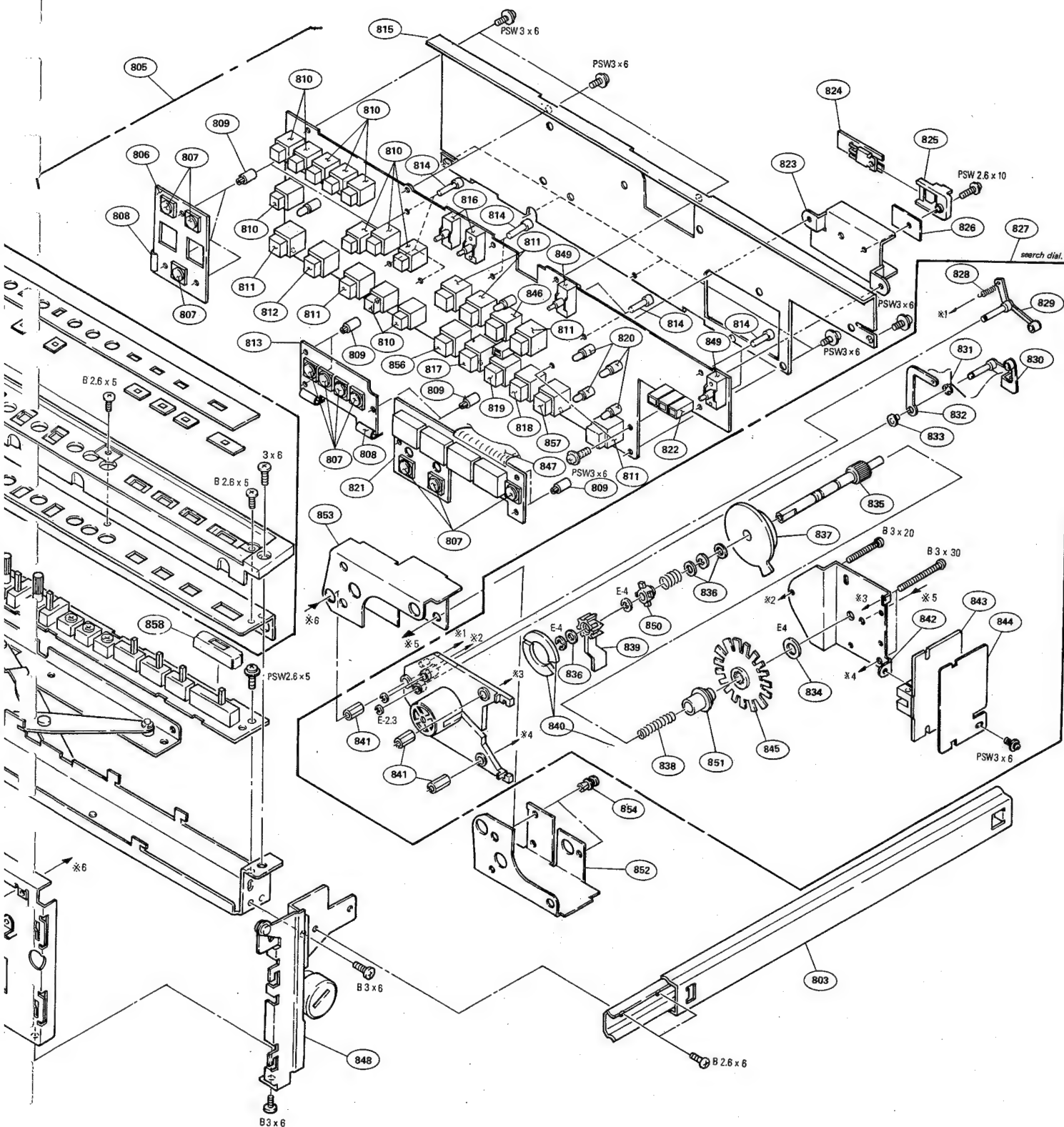
No.	Part No.	SP	Description
701	A-6750-213-F	s	BOX ASS'Y, GEAR
702	1-622-607-11	o	PRINTED CIRCUIT BOARD, PTC-31
703	8-835-179-01	s	MOTOR, DC MCB2B15
704	3-717-550-02	o	COVER, GEAR BOX
705	3-703-074-00	s	CAP 3, SHAFT
706	3-180-036-01	s	GEAR, LIMITER
707	3-717-261-02	o	PULLEY, MOTOR
708	3-688-066-01	s	BELT, LM
709	3-701-439-21	s	WASHER POLY 3MM DIA. 0.5T
710	X-3717-214-2	s	WORM ASS'Y
711	3-180-037-01	s	WHEEL, WORM
712	3-180-038-01	s	RUBBER, LIMITER

Function Control Chassis Block



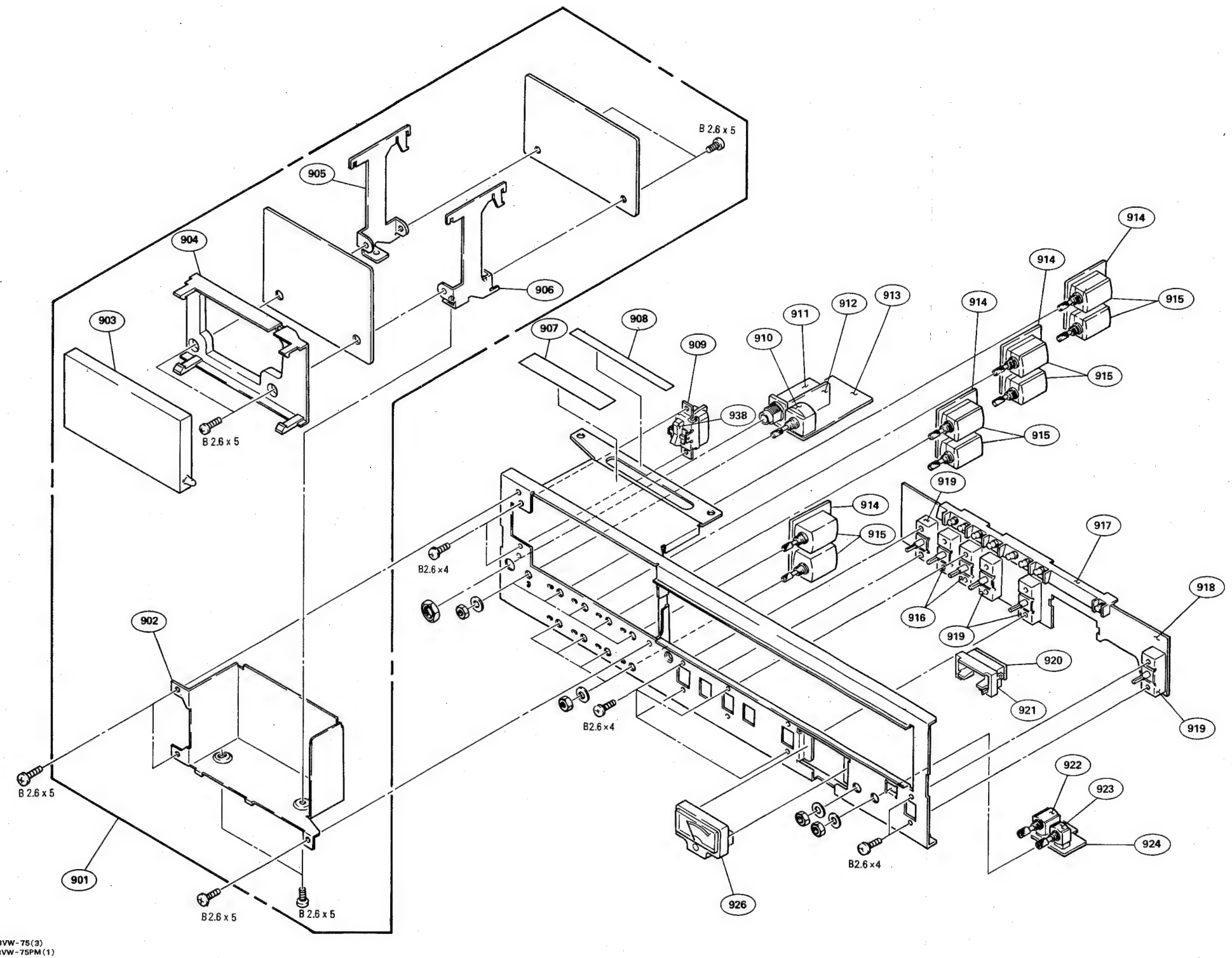
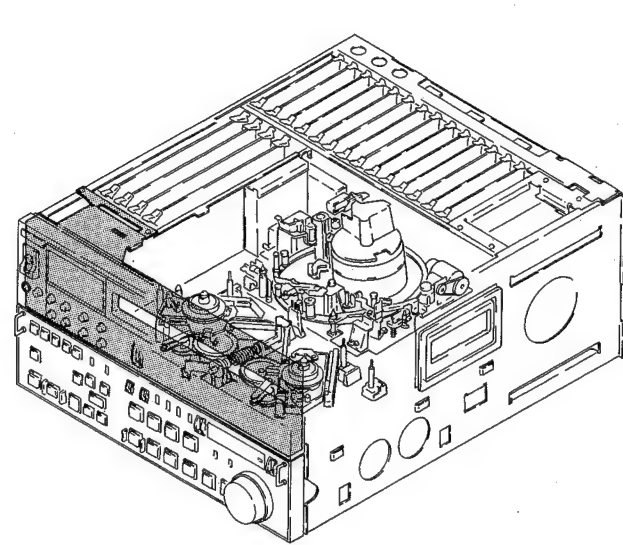
No.	Part
801	X-371
802	A-671
803	X-371
804	X-371
805	A-673
806	1-622
807	1-552
808	1-557
809	3-659
810	1-571
811	1-571
812	1-571
813	1-622
814	3-659
815	3-71
816	1-516
817	1-571
818	1-571
819	1-571
820	3-30
821	1-622
822	3-66
823	3-71
824	1-60
825	3-66
826	3-66
827	A-67
828	3-63
829	X-37
830	X-37
831	3-71
832	X-37
833	3-71
834	3-66
835	X-37
836	3-70
837	3-71
838	3-71
839	3-71
840	3-71
841	2-28
842	3-71
843	1-62
844	3-71
845	3-71
846	1-57
847	1-57
848	X-37
849	1-51
850	3-71
851	3-71
852	3-71
853	3-71
854	3-5
855	X-37
856	1-5
857	1-5
858	3-7

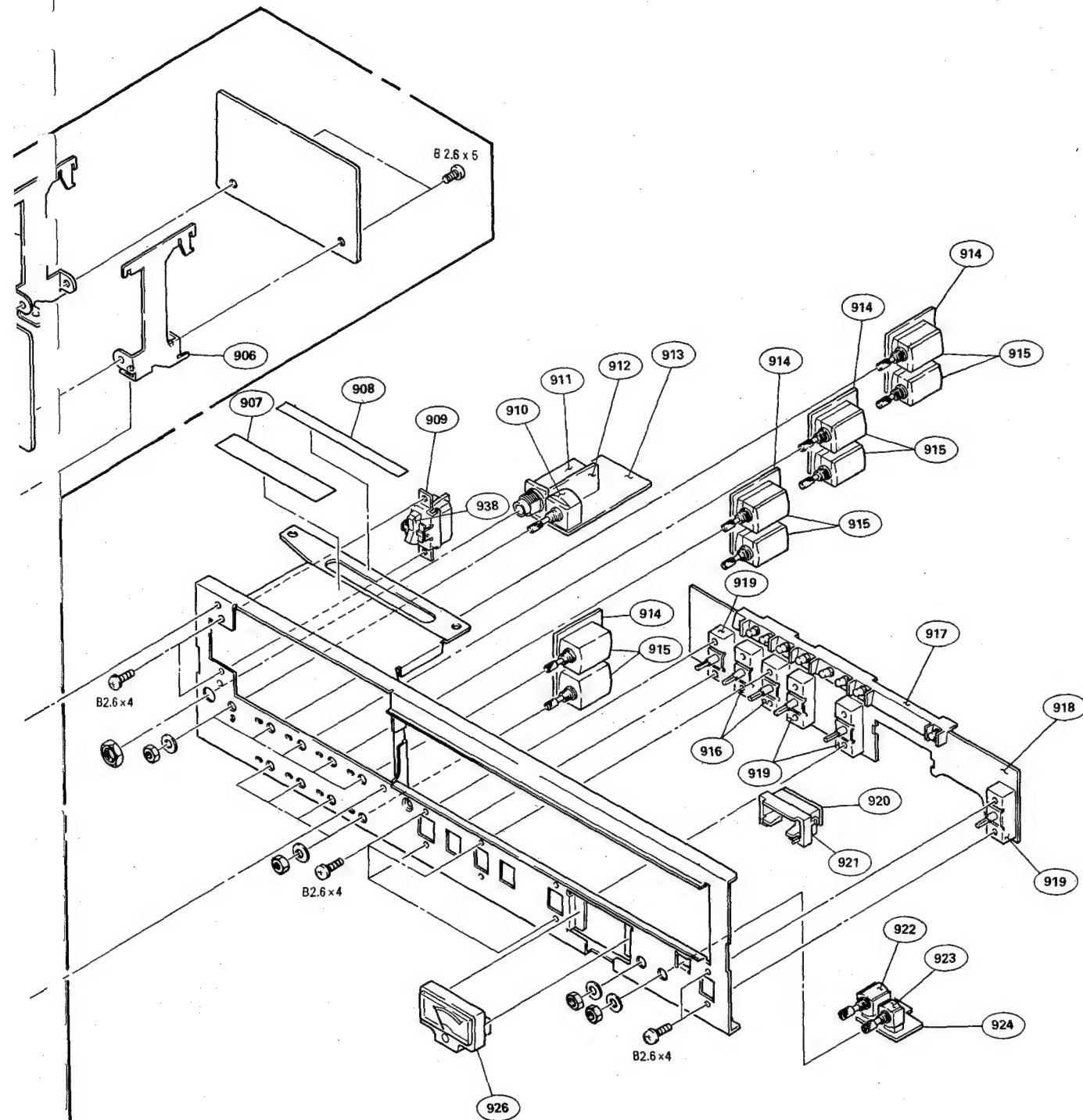
FUNCTION CONTROL FUNCTION CONTROL



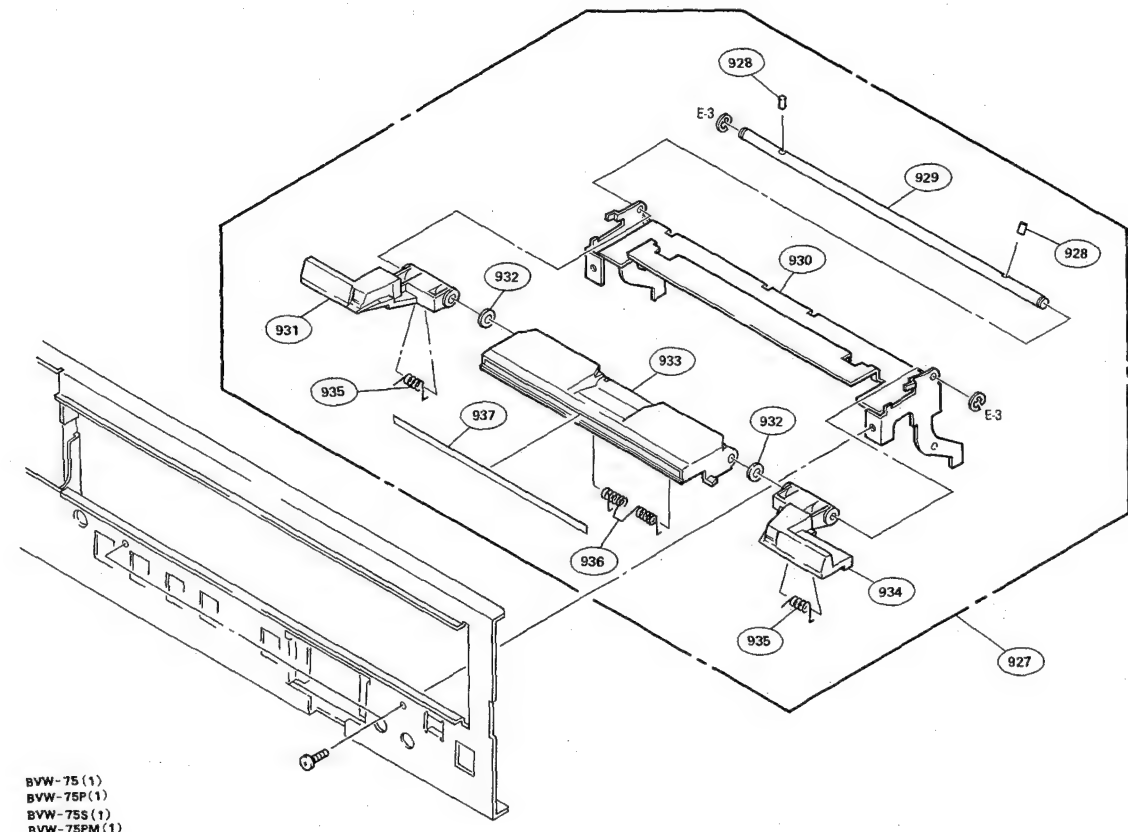
No.	Part No.	SP	Description
801	X-3717-251-1	o	SLIDER (LEFT) ASS'Y
802	A-6717-445-A	o	MOUNTED CIRCUIT BOARD, CP-103
803	X-3717-253-1	o	RAIL ASS'Y, SLIDE
804	X-3717-262-1	o	SUB PANEL ASS'Y
805	A-6734-236-A	o	CHASSIS ASS'Y, KEY
806	1-622-554-11	o	PRINTED CIRCUIT BOARD KY-107
807	1-552-539-00	s	SWITCH, KEY BOARD
808	1-557-236-11	o	WIRE, FLAT TYPE 6P
809	3-659-487-00	s	HOLDER, BUZER
810	1-571-280-11	s	SWITCH, TACTIL
811	1-571-167-11	s	SWITCH, TACTIL
812	1-571-168-11	s	SWITCH, TACTIL
813	1-622-555-11	o	PRINTED CIRCUIT BOARD, KY-108
814	3-659-488-00	s	PIN, BUZER HOLDER
815	3-717-416-04	o	PROTECTOR, KY
816	1-516-961-00	s	SWITCH, LEVER SLIDE
817	1-571-167-31	s	SWITCH, TACTIL
818	1-571-167-41	s	SWITCH, TACTIL
819	1-571-167-21	s	SWITCH, TACTIL
820	3-305-651-11	s	RETAINER, LED
821	1-622-556-11	o	PRINTED CIRCUIT BOARD, DP-71
822	3-668-124-00	o	HOLDER, LED
823	3-717-309-01	o	BRACKET, PT
824	1-605-018-00	o	PRINTED CIRCUIT BOARD, PT-9
825	3-669-904-00	o	HOLDER, PT
826	3-660-978-00	s	SHEET, HEAT RESISTING
827	A-6734-238-C	o	DIAL BLOCK ASS'Y, SEARCH
828	3-639-371-00	s	SPRING, TENSION
829	X-3717-229-1	o	ARM ASS'Y, RETURN
830	X-3717-227-1	o	ARM (RIGHT) ASS'Y, S10
831	3-717-319-01	o	SPRING, TORSION
832	X-3717-228-1	o	ARM (LEFT) ASS'Y, S10
833	3-717-318-01	o	BEARING, S10
834	3-662-048-00	s	WASHER POLY 5MM DIA. 0.25T
835	X-3717-226-1	o	SHAFT SUB ASS'Y, MAIN
836	3-701-443-21	s	WASHER POLY 5MM DIA. 0.5T
837	3-717-417-01	o	CAM
838	3-717-320-01	o	SPRING, COMPRESSION
839	3-717-316-03	o	GUIDE, LOCK IN
840	3-717-317-01	o	PLATE, CLUTCH
841	2-280-622-11	o	SUPPORT (M3), HEXAGON
842	3-717-315-01	o	PLATE, BOTTOM, SD
843	1-622-638-12	o	PRINTED CIRCUIT BOARD, PTC-32
844	3-717-321-01	o	PROTECTOR, PTC
845	3-717-418-01	o	PLATE
846	1-571-168-21	s	SWITCH, TACTIL
847	1-557-237-11	o	WIRE, FLAT TYPE 23P
848	X-3717-252-1	o	SLIDER (RIGHT) ASS'Y
849	1-516-995-00	s	SWITCH, LEVER SLIDE
850	3-717-546-02	o	GUIDE, LOCK OUT
851	3-717-553-01	o	BEARING, SD
852	3-717-587-02	o	COVER (W), SD
853	3-718-771-01	o	COVER (U), SD
854	3-531-576-01	s	RIVET, NYLON
855	X-3717-254-1	o	CHASSIS SUB ASS'Y, SUB
856	1-571-169-11	s	SWITCH, TACTIL
857	1-571-169-21	s	SWITCH, TACTIL
858	3-717-520-01	o	PLATE (for J, UC)

Level Control Chassis Block



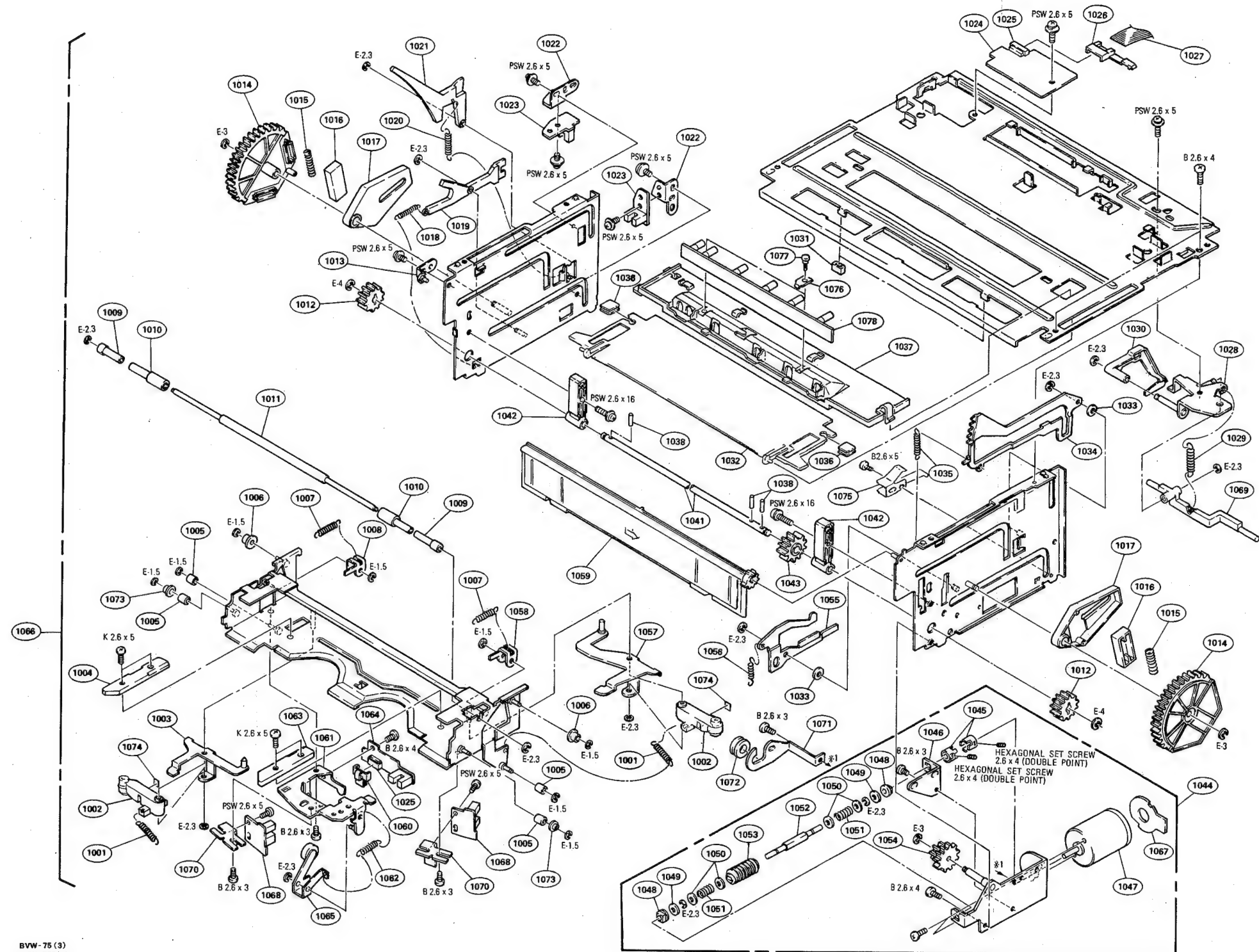
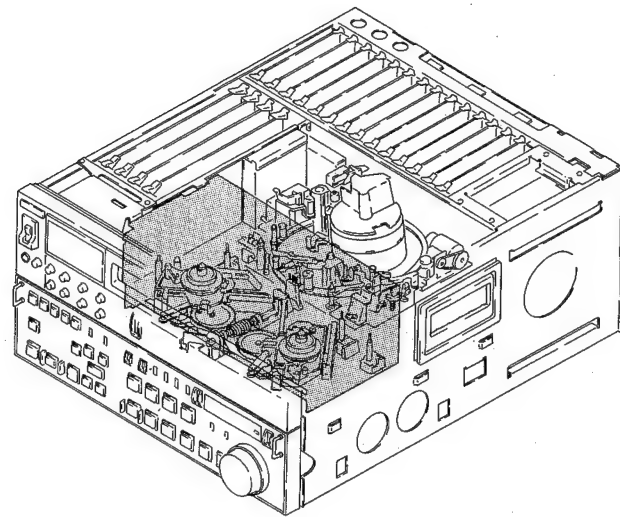


No.	Part No.	SP	Description	No.	Part No.	SP	Description
901	A-6730-924-A	o	TUBE ASS'Y, INDICATION	916	1-516-994-00	s	SWITCH, LEVER SLIDE
902	3-717-539-01	o	CASE, INDICATION TUBE	917	3-717-474-02	o	HOLDER, LED
903	1-520-496-11	s	LEVEL METER, AUDIO	918	1-622-573-14	o	PRINTED CIRCUIT BOARD, SW-144
904	3-717-538-03	o	HOLDER, VFD	919	1-516-995-00	s	SWITCH, LEVER SLIDE
905	3-717-532-01	o	BRACKET (LEFT), DP	920	1-622-591-11	o	DP-72 BOARD
906	3-717-531-01	o	BRACKET (RIGHT), DP	921	3-717-323-02	o	COVER, METER LED
907	3-717-530-01	o	LABEL (BF), PC BOARD	922	1-237-782-11	s	CARBON RV TYPE 12 ONE SHAFT
908	3-727-094-01	o	LABEL (M), PC BOARD	923	1-237-719-00	s	CARBON RV TYPE 12
909	1-570-117-11	s	SWITCH, LOCKER (AC POWER)	924	1-622-588-11	o	PRINTED CIRCUIT BOARD, VR-61
910	1-230-501-11	s	RES, VAR, CARBON 20K/20K	926	1-520-494-11	s	METER, LEVEL (VIDEO)
911	1-507-863-31	s	JACK, LARGE TYPE	927	A-6751-377-D	o	GUIDE ASS'Y, SC
912	1-622-590-13	o	PRINTED CIRCUIT BOARD, HP-33	928	3-677-193-01	o	PIN, STOPPER
913	1-622-589-11	o	PRINTED CIRCUIT BOARD, VR-62	929	3-717-617-01	o	SHAFT, SC GUIDE
914	1-622-592-11	o	PRINTED CIRCUIT BOARD, VR-42	930	3-717-621-03	o	BRACKET, SC GUIDE
915	1-237-781-11	s	CARBON, RV TYPE 12 ONE SHAFT	931	3-717-618-01	o	GUIDE L, SC
				932	3-701-441-21	s	WASHER POLY 4MM DIA. 0.5T
				933	3-717-620-01	o	BRACKET, C-LOCK OUT
				934	3-717-619-01	o	GUIDE R, SC
				935	3-717-616-01	o	SPRING, SC GUIDE
				936	3-717-615-01	o	SPRING, C-LOCK OUT
				937	3-717-614-01	o	PLATE, C-LOCK OUT
				938	3-688-814-01	s	CAP, SWITCH



BVW-75 (1)
BVW-75P (1)
BVW-75S (1)
BVW-75PM (1)

Cassette-up Compartment



BVW-75 (3)
BVW-75P (2)
BVW-75PM (1)
BVW-75S (1)

No.

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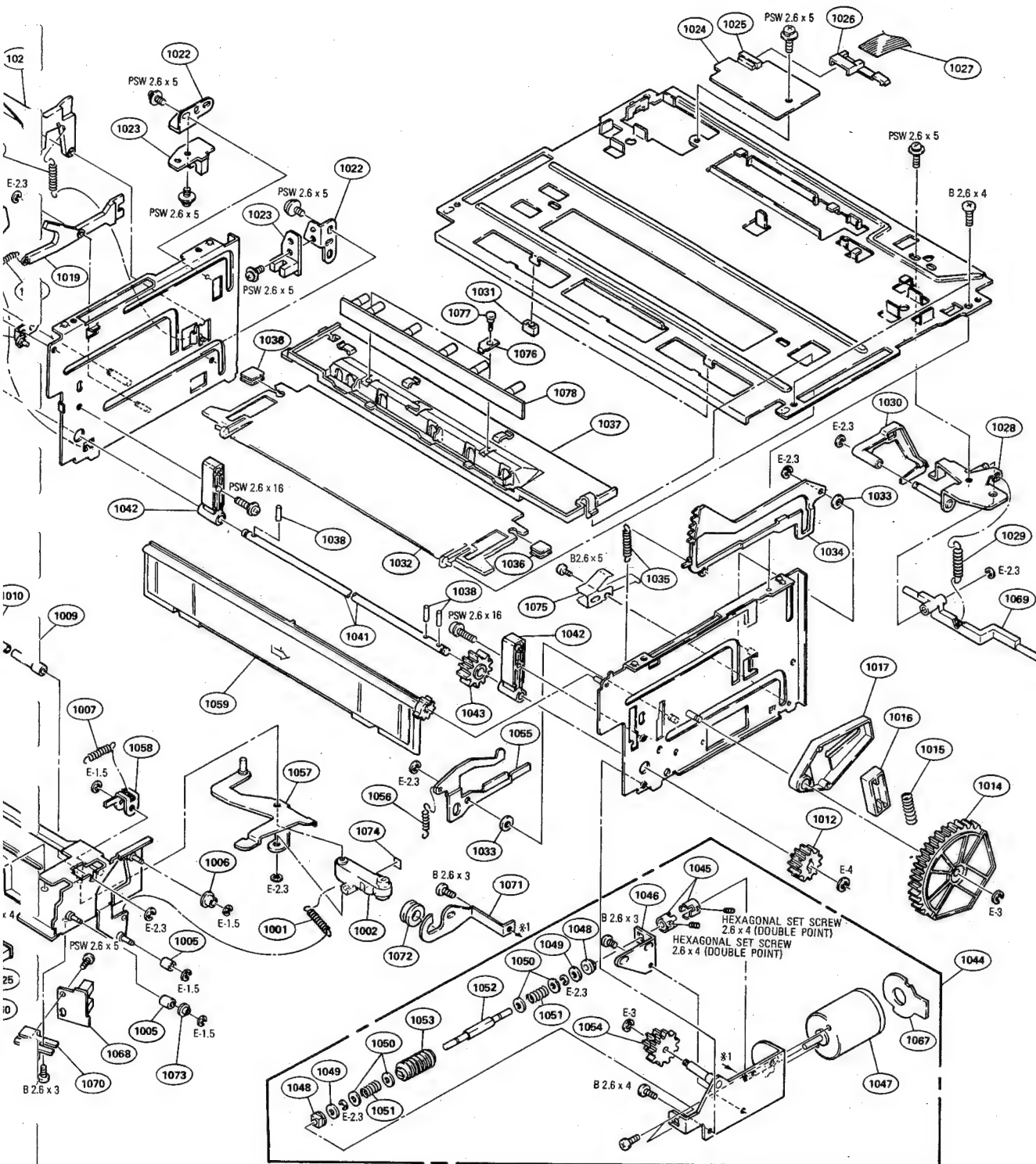
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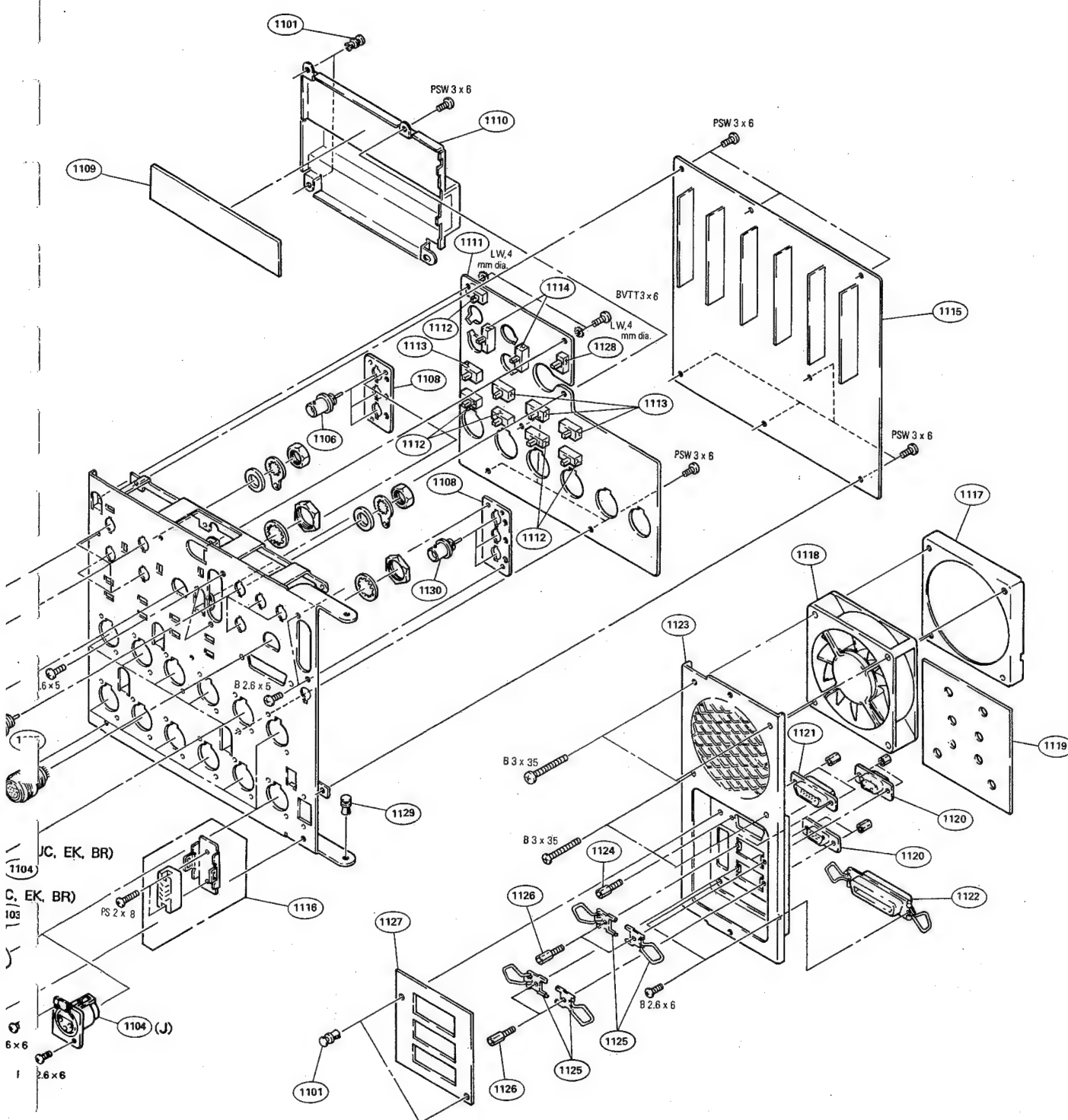
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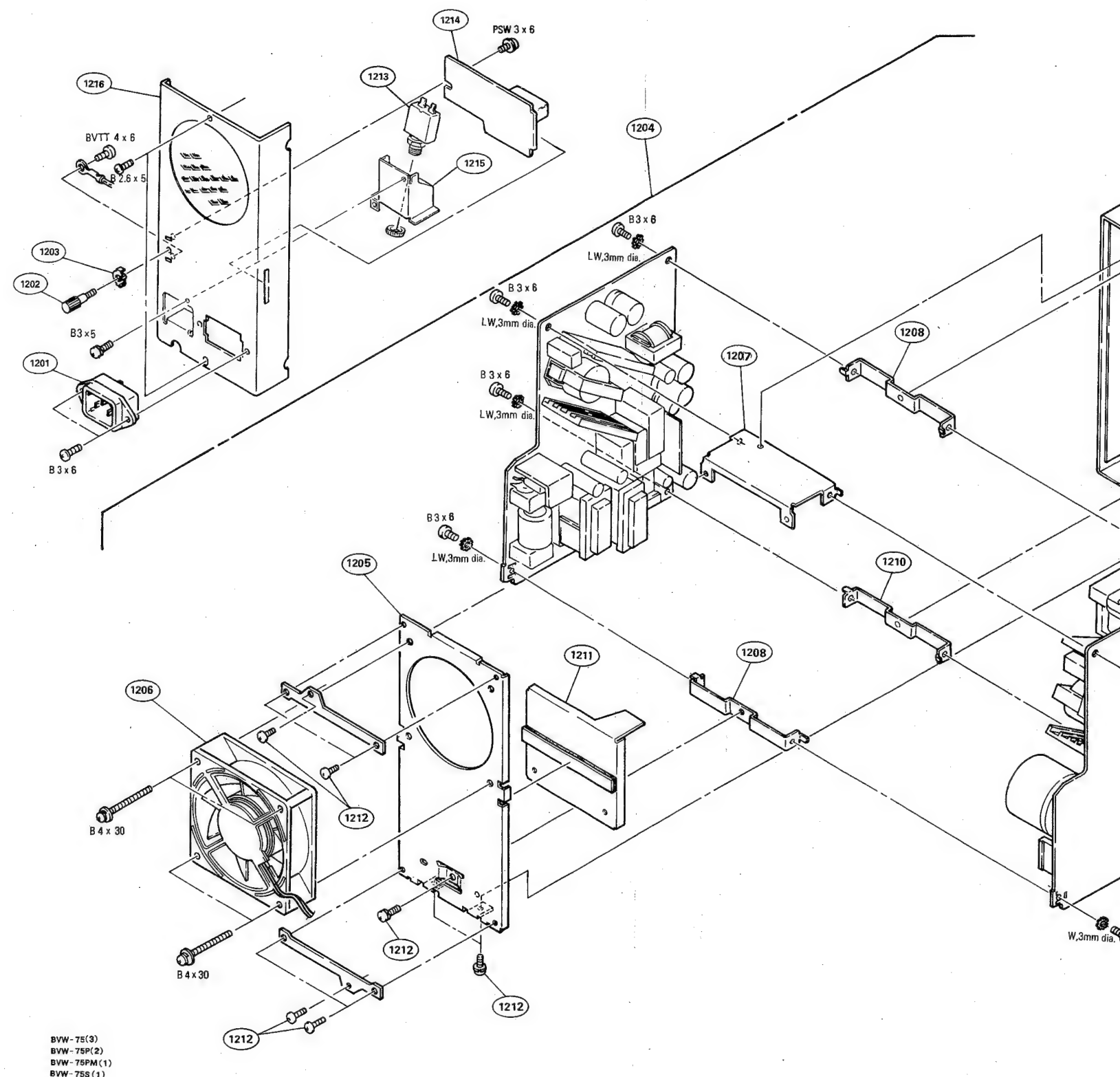
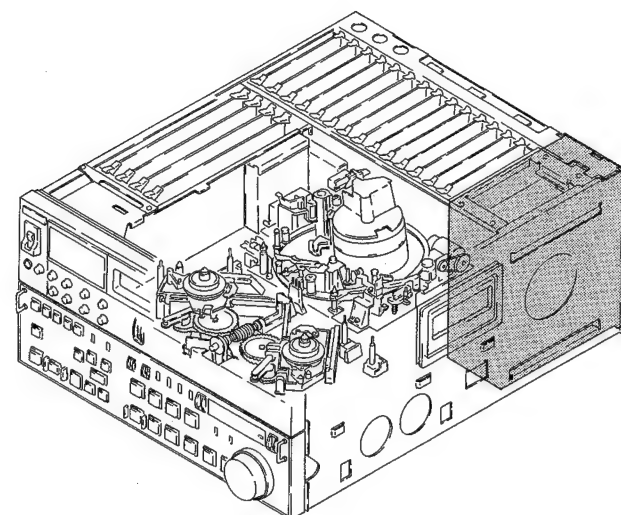
No.	Part No.	SP	Description
1001	3-578-389-00	s	SPRING, TENSION
1002	X-3717-361-1	o	ARM ASS'Y, PUSH OUT
1003	X-3717-362-1	o	ARM (LEFT) ASS'Y, CASSETTE IN
1004	3-717-461-03	o	GUIDE (LEFT), CASSETTE
1005	3-717-351-01	o	ROLLER (B), GUIDE
1006	3-677-187-00	s	ROLLER, GUIDE
1007	3-489-325-01	s	SPRING, TENSION
1008	3-717-347-01	o	ARM (LEFT), CASSETTE PRESS
1009	3-717-350-01	o	ROLLER (L), PRESS
1010	3-717-349-01	o	ROLLER (S), PRESS
1011	3-717-348-03	o	SHAFT, PRESS ROLLER
1012	3-717-365-01	s	GEAR, JOINT DRIVING
1013	X-3717-236-1	o	BRACKET ASS'Y, DOOR
1014	3-717-475-01	s	GEAR, DRIVING
1015	3-717-458-01	s	SPRING, COMPRESSION
1016	3-717-356-01	o	SLIDER, ARM DRIVING
1017	3-717-355-01	o	ARM, DRIVING
1018	3-531-863-01	s	SPRING, TENSION
1019	3-717-361-02	o	ARM (1), DOWN SW
1020	3-140-263-XX	s	SPRING, TENSION
1021	3-717-362-02	o	ARM (2), DOWN SW
1022	3-717-339-01	o	BRACKET, PHOTO
1023	1-622-604-11	o	PRINTED CIRCUIT BOARD, PC-33
1024	1-622-602-11	o	PRINTED CIRCUIT BOARD, CL-14
1025	1-563-969-11	o	CONNECTOR, F.P.C, 7P
1026	3-717-368-01	o	HOLDER (B), F.P.C
1027	1-559-265-11	o	WIRE, FLEXIBLE CARD
1028	X-3717-235-1	o	CHASSIS ASS'Y, LID OPEN LEVER
1029	3-491-360-00	s	SPRING, TENSION
1030	3-717-453-01	s	LEVER, LID OPEN
1031	3-717-369-03	o	STOPPER, DOOR
1032	X-3717-365-4	o	REFLECTOR ASS'Y
1033	3-701-439-21	s	WASHER POLY 3MM DIA. 0.5T
1034	3-717-457-01	o	ARM, DOOR SWITCHING
1035	3-668-508-00	s	SPRING, TENSION

No.	Part No.	SP	Description
1036	3-717-596-01	o	RUBBER, VIBRATION PROOF
1037	3-717-586-04	s	HOLDER (MAIN), LAMP
1038	3-703-358-03	o	PIN, PARALLEL (DIA.2 x 8)
1041	3-717-363-01	o	SHAFT, JOINT
1042	3-717-359-01	o	BEARING, DRIVING GEAR
1043	3-717-364-01	s	GEAR, JOINT
1044	A-6737-178-A	s	MOTOR BLOCK ASS'Y
1045	3-717-352-01	o	JOINT, MOTOR
1046	3-717-354-01	o	BRACKET, WORM
1047	1-541-376-11	s	MOTOR, DC (DNR-4700A)
1048	3-717-214-01	o	BEARING, WORM
1049	3-717-213-01	o	WASHER (A), WORM
1050	3-717-212-01	o	WASHER (B), WORM
1051	3-659-324-00	s	SPRING, COMPRESSION
1052	3-717-353-01	o	SHAFT, WORM
1053	3-717-210-01	s	WORM
1054	3-717-454-01	o	WHEEL, WORM
1055	3-717-455-04	o	ARM, DOOR SWITCHING ASSIST
1056	3-437-284-00	s	SPRING, TENSION
1057	X-3717-359-1	o	ARM (RIGHT) ASS'Y, CASSETTE IN
1058	3-717-346-01	o	ARM (RIGHT), CASSETTE PRESS
1059	3-717-435-04	o	DOOR, CASSETTE
1060	3-717-421-02	o	HOLDER (A), F.P.C
1061	X-3717-360-1	o	DECK ASS'Y, ARM
1062	3-509-127-00	s	SPRING, TENSION
1063	3-717-460-03	o	GUIDE (RIGHT), CASSETTE
1064	1-628-786-11	o	PRINTED CIRCUIT BOARD, PC-47
1065	X-3717-231-1	o	ARM ASS'Y, LS
1066	A-6751-360-G	s	CASSETTE COMPARTMENT ASS'Y
1067	1-623-198-11	o	PRINTED CIRCUIT BOARD, CCM-2
1068	1-623-267-11	o	PRINTED CIRCUIT BOARD, PC-41
1069	3-717-584-01	s	LEVER (B), LID OPEN
1070	3-717-585-01	o	BRACKET (B), PHOT
1071	3-717-597-01	o	JOINT, PLATE
1072	3-717-598-01	o	JOINT, BEARWG
1073	3-717-599-01	s	ROLLER (C), GUIDE
1074	3-329-460-01	o	SPACER
1075	3-727-017-02	o	PLATE, GROUND
1076	3-738-709-01	s	PLATE
1077	3-606-090-01	s	RIVET
1078	1-635-029-11	o	PRINTED CIRCUIT BOARD, CL-24

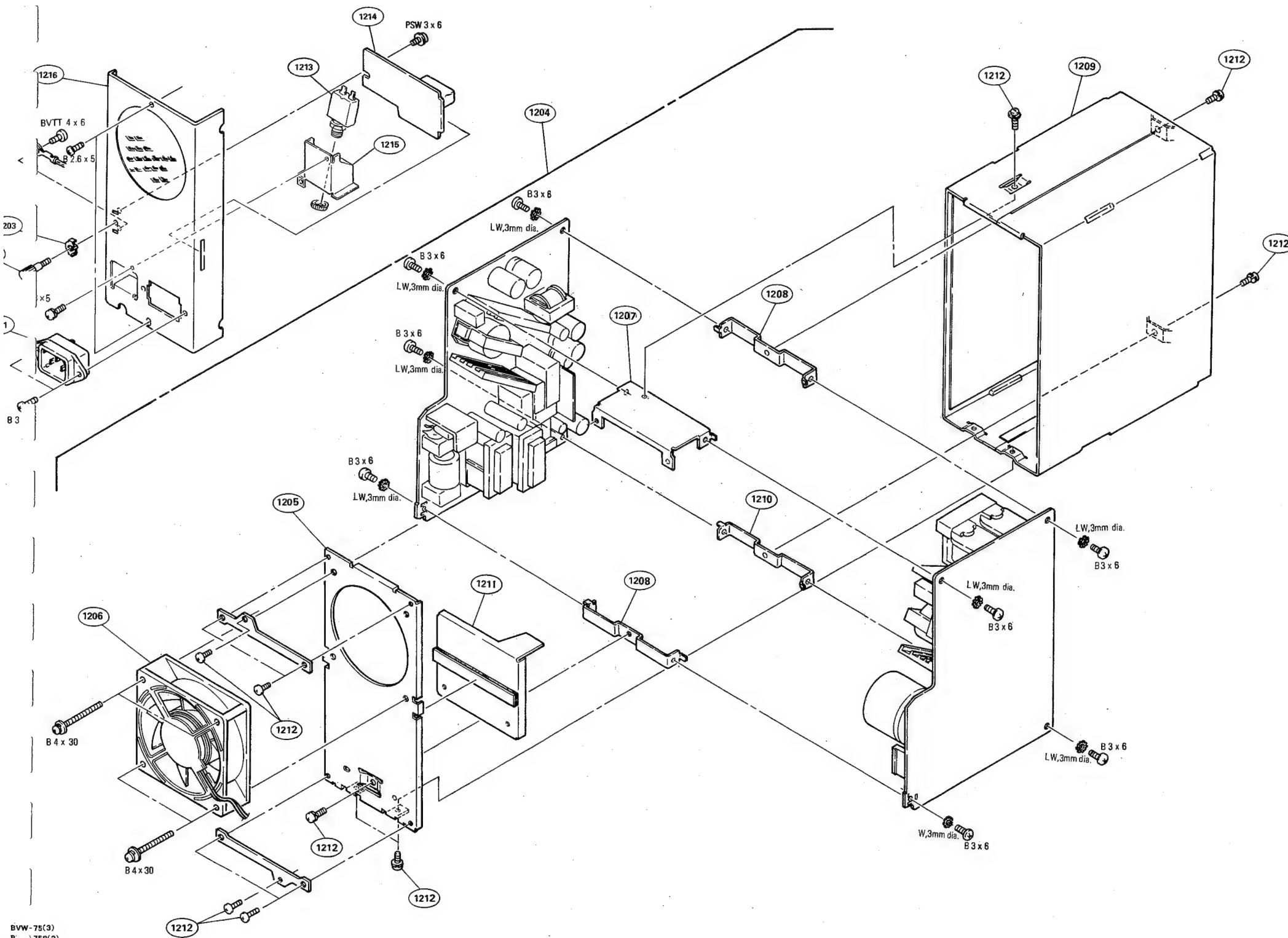


No.	Part No.	SP	Description
1101	3-531-576-01	s	RIVET
1102	3-717-436-03	s	PLATE (R), ORNAMENTAL, CONNECTOR
1103	1-509-176-51	s	CONNECTOR, 3P, MALE
1104	1-509-184-51	s	CONNECTOR, 3P, FEMALE
1105	1-562-160-00	s	CONNECTOR (R-F) 12P
1106	1-561-781-21	s	CONNECTOR, BNC (RECEPTACLE)
1107	1-564-407-11	s	CONNECTOR (R-M)
1108	3-717-325-03	o	BRACKET, CONNECTOR
1109	3-717-324-01	o	INSULATOR, CP-101 SHIELD
1110	3-717-419-01	o	PLATE, SHIELD, CP-101
1111	A-6729-470-A	o	MOUNTED CIRCUIT BOARD, CP-101
1112	1-554-958-11	s	SWITCH SLIDE (PC BOARD)
1113	1-571-062-11	s	SWITCH, SLIDE
1114	1-570-157-21	s	SWITCH, SLIDE
1115	A-6713-420-A	o	MOUNTED CIRCUIT BOARD, CP-161A
1116	1-509-095-00	s	SOCKET, MULTI (8P)
1117	3-717-326-01	o	BRACKET, FAN COVER
1118	1-541-431-31	s	MOTOR, DC FAN
1119	1-622-557-11	o	PRINTED CIRCUIT BOARD, RM-48
1120	1-563-890-11	s	SOCKET, D-SUB CONNECTOR 9P
1121	1-566-441-11	s	PIN, D-SUB CONNECTOR 15P
1122	1-561-028-00	s	CONNECTOR, 36P
1123	3-717-485-01	o	PANEL (L), REAR
1124	3-717-328-01	o	SCREW (15P), CONNECTOR
1125	3-668-460-00	o	SPRING
1126	3-717-327-01	o	SCREW (9P), CONNECTOR
1127	3-717-420-01	o	PLATE, ORNAMENTAL, PANEL
1128	1-554-377-00	s	SWITCH, SLIDE
1129	4-818-403-01	s	RIVET
1130	1-561-781-11	s	CONNECTOR, BNC (RECEPTACLE)

Switching Regulator Block

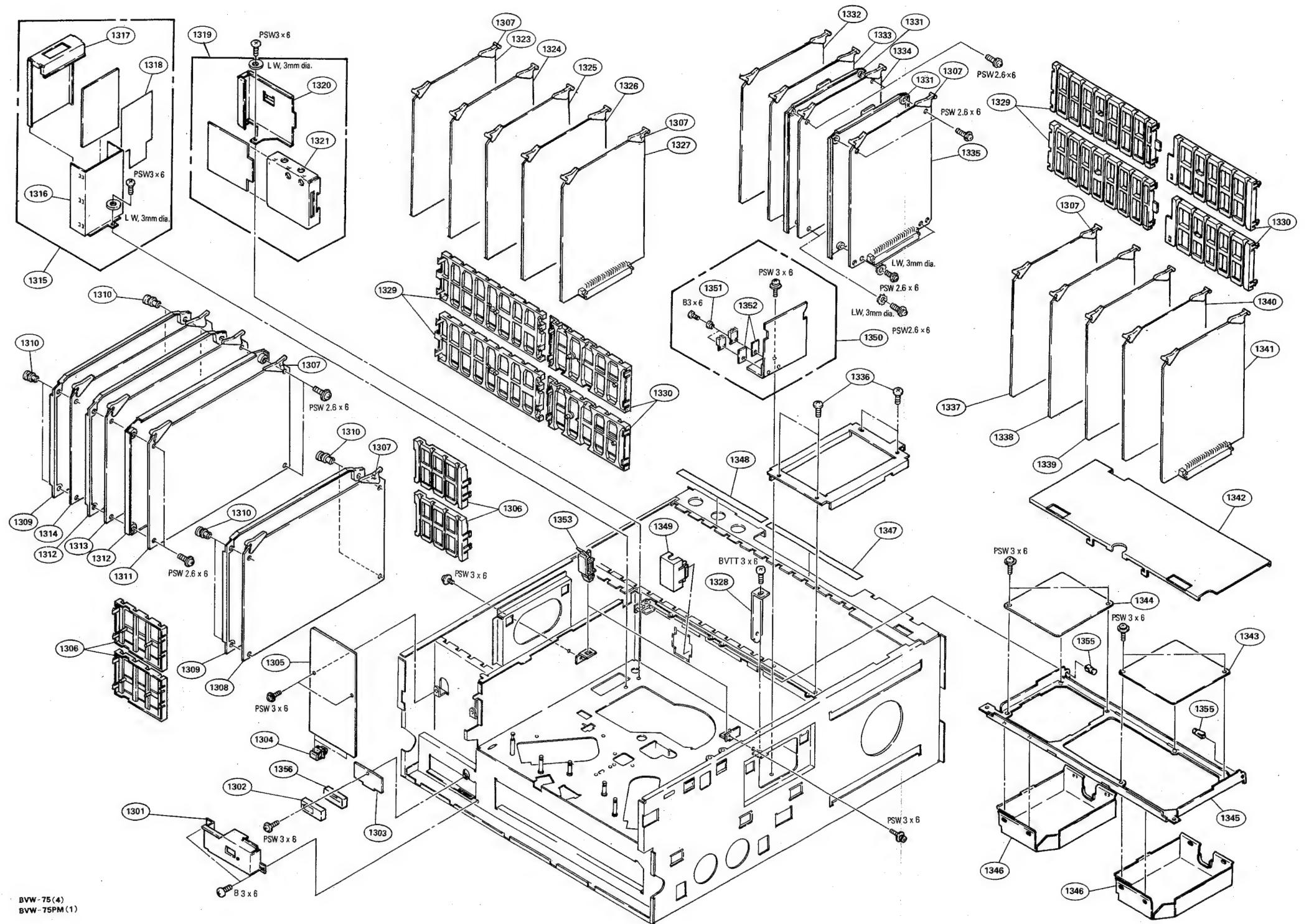
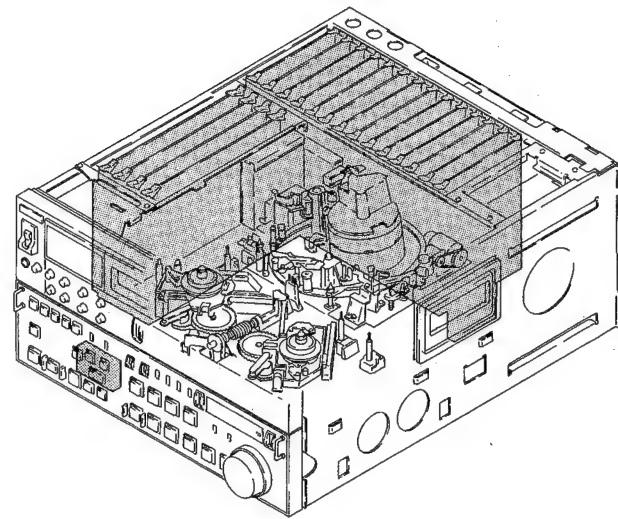


SWITCHING REGULATOR SWITCHING REGULATOR

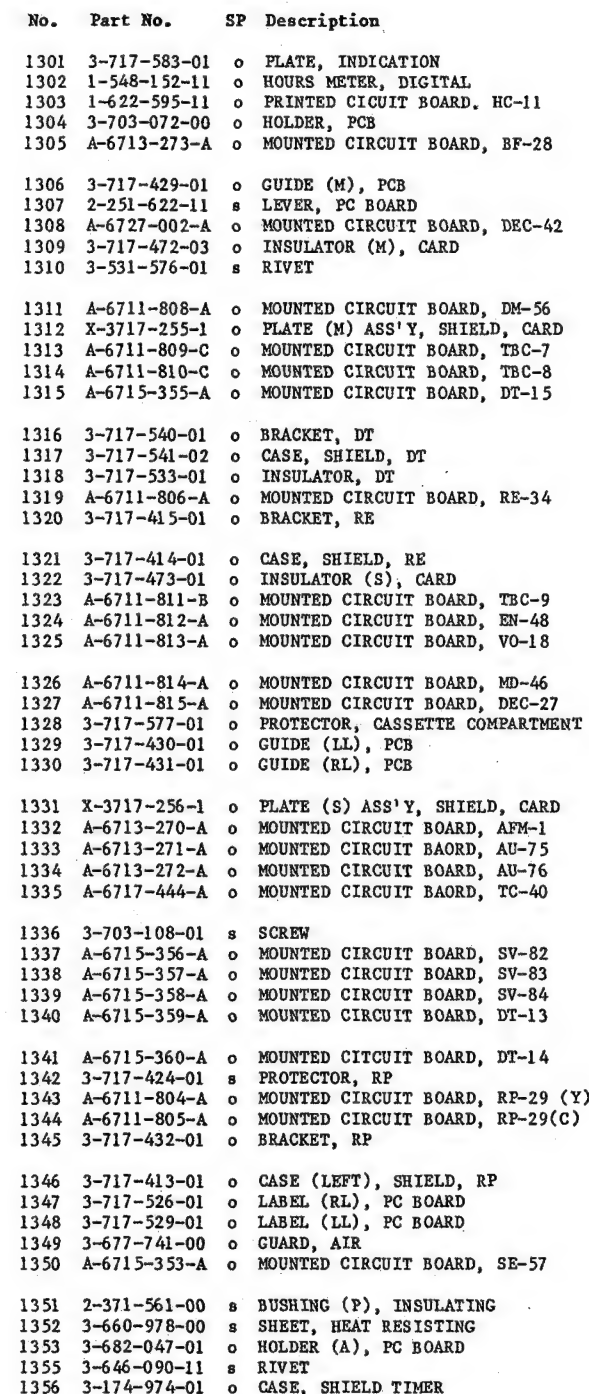


No.	Part No.	SP	Description
1201	1-580-375-21	s	3P INLET
1202	X-2068-004-0	s	TERMINAL ASS'Y
1203	2-068-008-00	s	WASHER
1204	1-413-307-24	s	REGULATOR, SWITCHING (UR-21B)
1205	2-403-697-11	o	LID, CASE
1206	1-541-431-31	s	MOTOR, DC FAN
1207	2-434-457-01	o	BRACKET, LS-UR21-S
1208	2-434-441-01	o	BRACKET
1209	2-403-696-01	o	CASE
1210	2-434-441-11	o	BRACKET
1211	2-431-695-01	o	SHEET (IS-UR21-S), INSULATING
1212	3-703-108-01	s	SCREW + BV 3 6, S TIGHT
1213	1-576-036-11	s	BREAKER, CIRCUIT
1214	1-628-132-11	o	PRINTED CIRCUIT BOARD, AC-96
1215	3-727-029-01	o	BRACKET, BREAKER
1216	3-727-030-01	o	PANEL (R), REAR

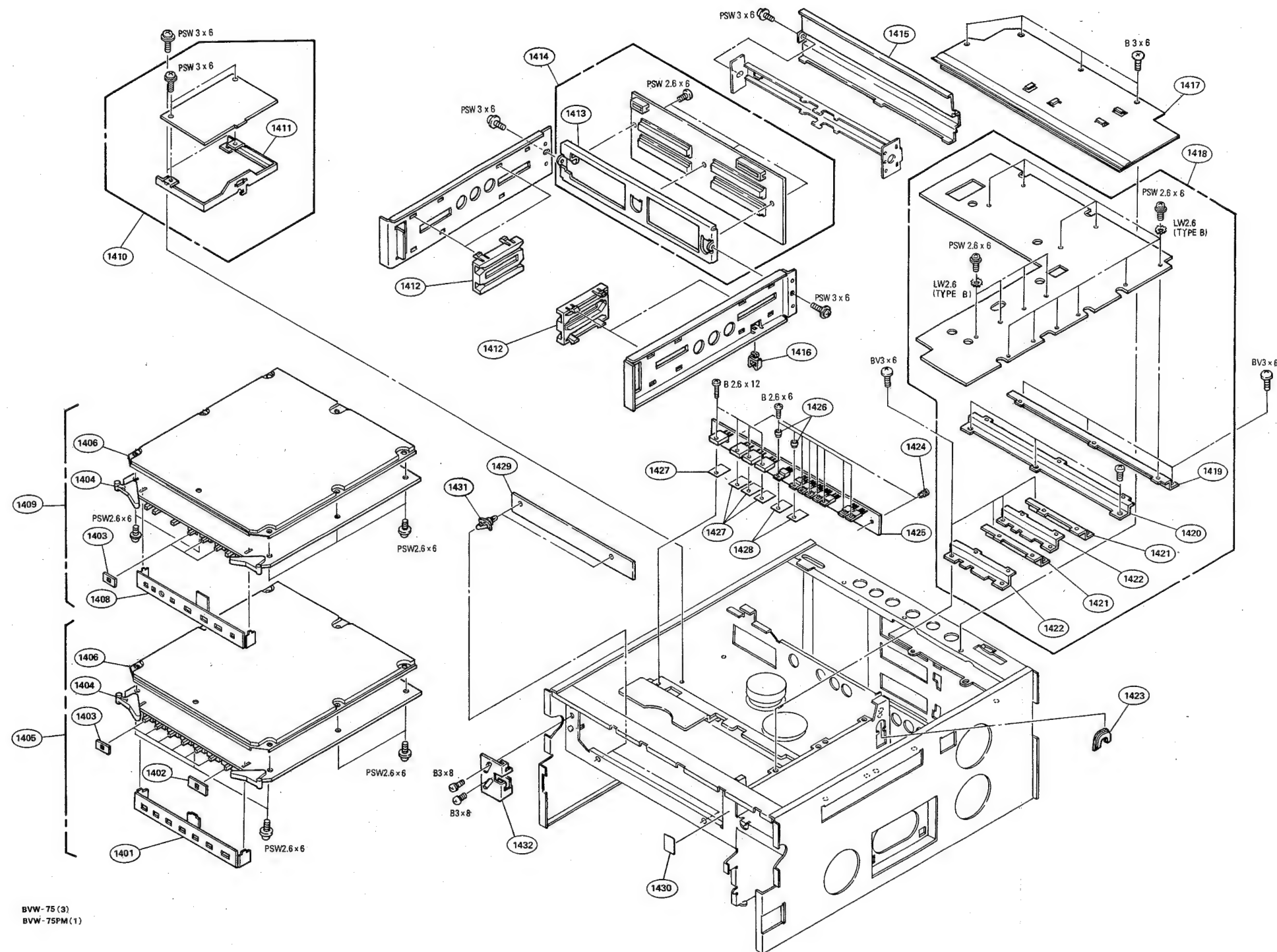
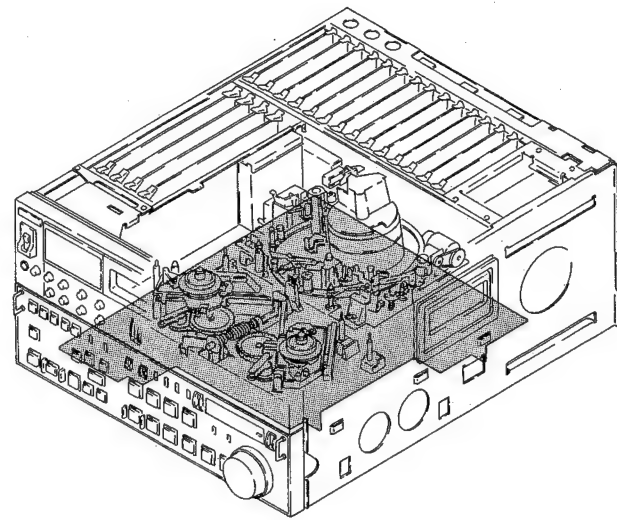
Printed Circuit Block (1)



BVW-75(4)
BVW-75PM(1)

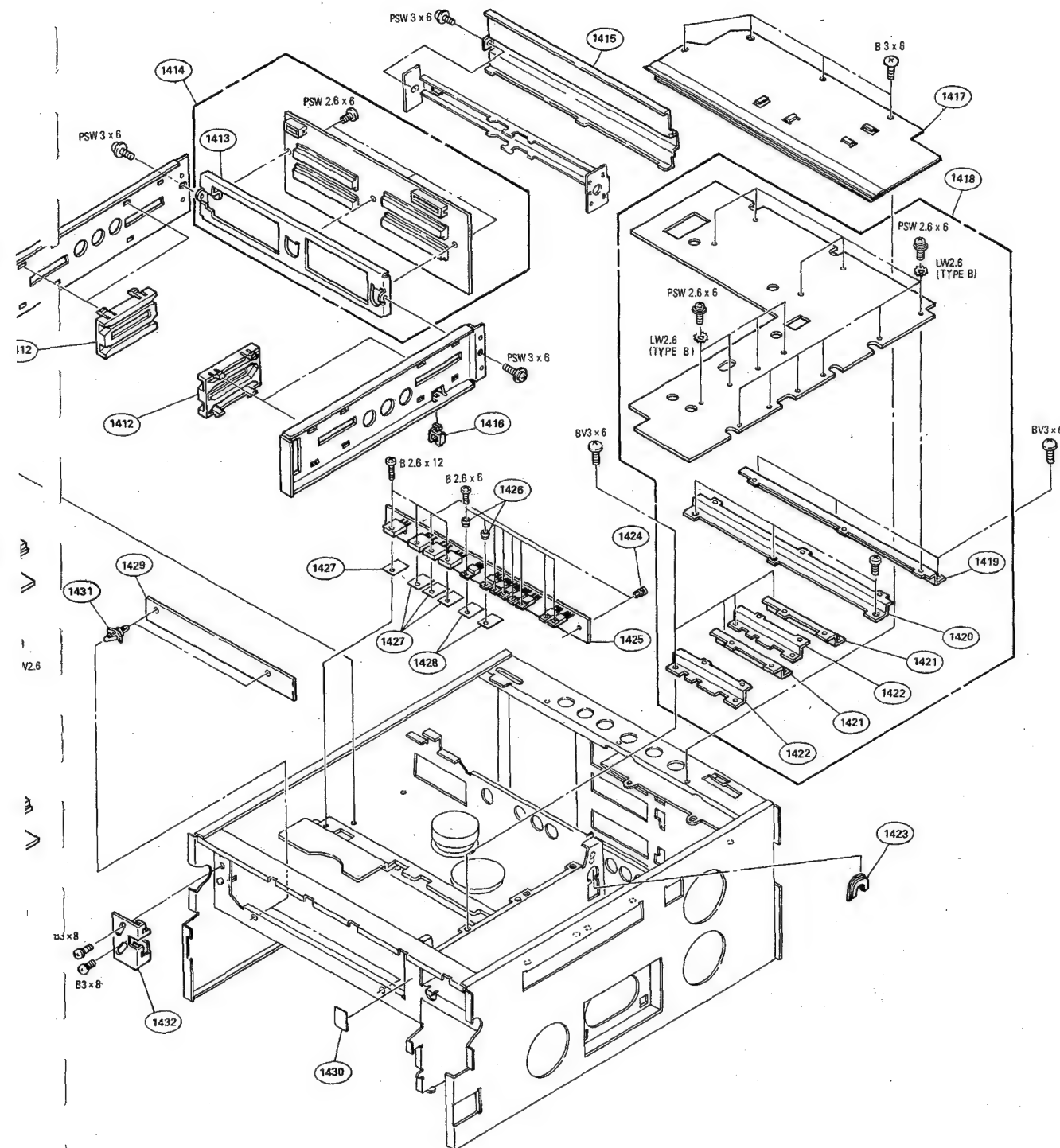


Printed Circuit Block (2)



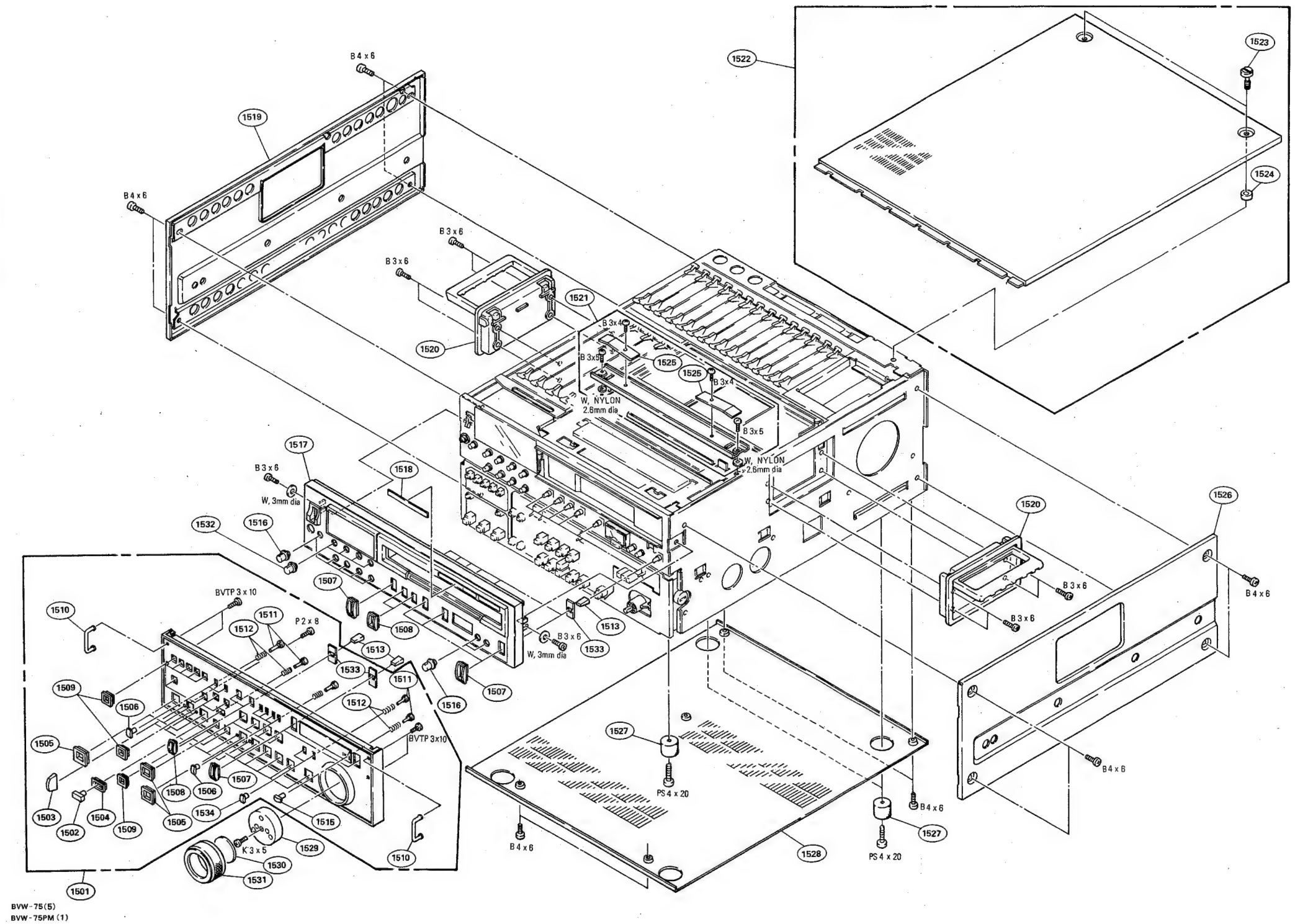
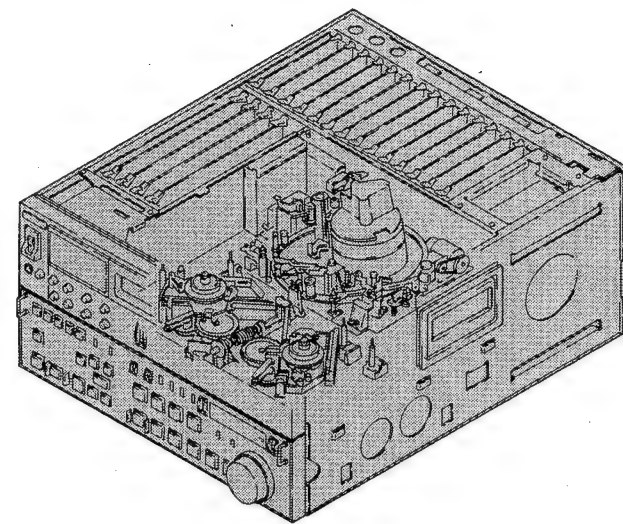
BVW-75 (3)
BVW-75PM (1)

No.	I
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1402	3
1403	3
1404	2
1405	4
1406	3
1408	3
1409	4
1410	4
1411	3
1412	3
1413	3
1414	4
1415	3
1416	4
1417	3
1418	4
1419	3
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1421	3
1422	3
1423	4
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1427	4
1428	3
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1431	3
1432	4

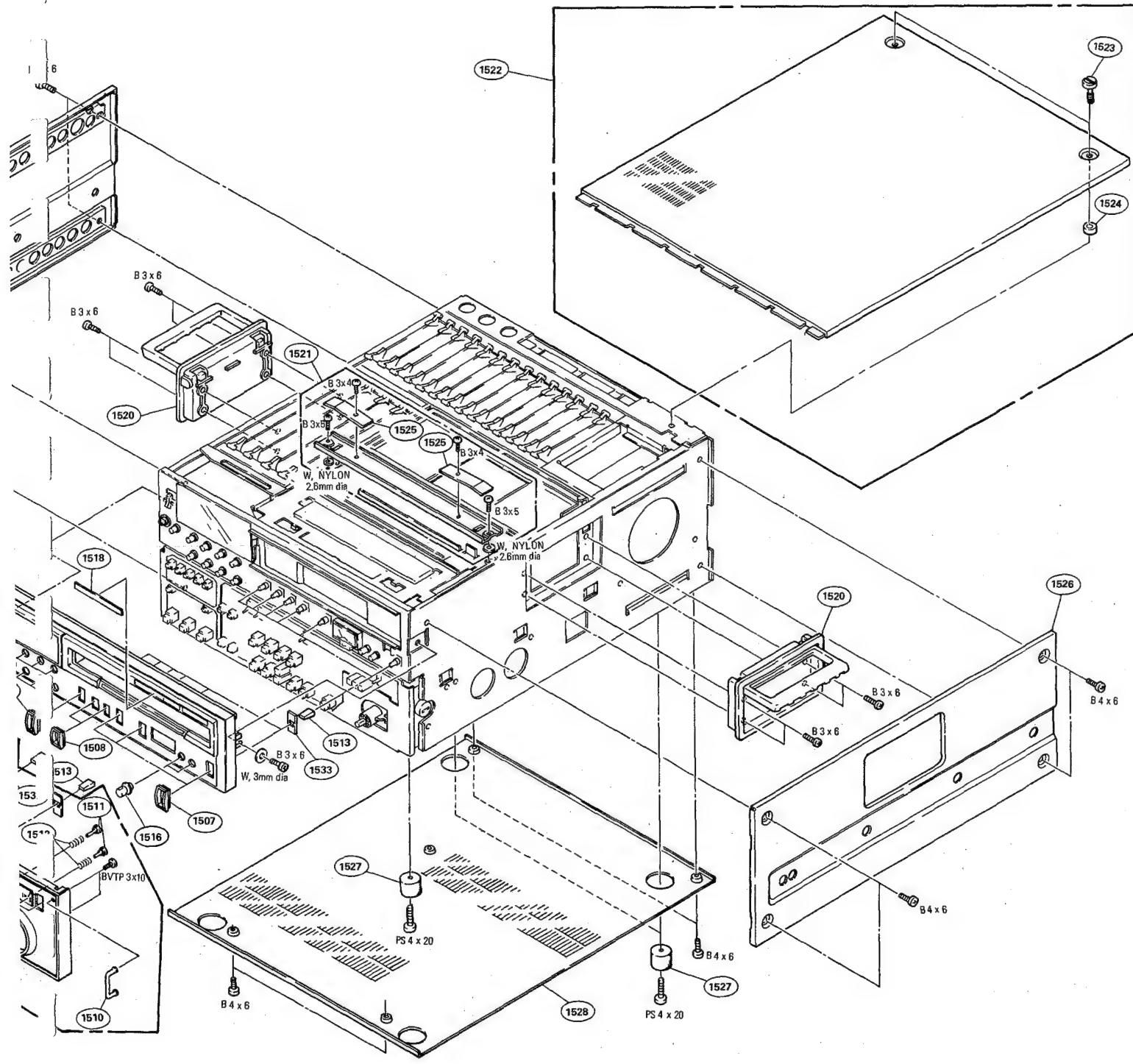


No.	Part No.	SP	Description
1401	3-717-471-01	o	SHEET METAL (64), ORNAMENTAL
1402	3-717-552-01	o	PLATE (LARGE), ORNAMENTAL SLIDE
1403	3-717-551-01	o	PLATE (SMALL), ORNAMENTAL, SLIDE
1404	2-251-622-11	s	LEVER, PC BOARD
1405	A-6717-443-A	o	MOUNTED CIRCUIT BOARD, SY-64
1406	X-3717-290-1	o	PLATE (L) ASS'Y, SHIELD, CARD
1408	3-717-469-01	o	SHEET METAL (61), ORNAMENTAL
1409	A-6717-442-B	o	MOUNTED CIRCUIT BOARD, SY-61
1410	A-6715-354-A	o	MOUNTED CIRCUIT BOARD, RE-28
1411	3-717-308-01	o	BRACKET (1), RE
1412	3-717-410-01	o	GUIDE (S), PCB
1413	3-717-468-01	o	JOINT, CONNECTOR
1414	A-6725-558-A	o	MOUNTED CIRCUIT BOARD, MB-117
1415	3-717-490-01	o	PLATE, SHIELD, MB-117
1416	4-309-753-00	o	HOLDER, WIRE
1417	3-717-543-01	o	GUARD, MB
1418	A-6725-557-A	o	MOUNTED CIRCUIT BOARD, MB-116
1419	3-717-480-04	o	BRACKET (LR), MB
1420	3-717-491-05	o	BRACKET (LF), MB
1421	3-717-466-01	o	BRACKET (S), MB
1422	3-717-467-01	o	BRACKET (M), MB
1423	4-302-401-00	s	BUSHING, DEGAUSSING COIL
1424	4-812-134-00	s	RIVET NYLON, 3.5
1425	1-622-561-11	o	PRINTED CIRCUIT BOARD, DR-56
1426	2-371-561-00	s	BUSHING (P), INSULATING
1427	4-911-232-01	s	SHEET, INSULATING
1428	3-660-978-00	s	SHEET, HEAT RESISTING
1429	A-6715-361-A	o	MOUNTED CIRCUIT BOARD, RE-36
1430	3-717-528-01	o	LABEL (S), PC BOARD
1431	3-703-353-01	o	SUPPORT, PC BOARD
1432	3-727-012-02	s	STOPPER, SY

Ornamental Panel Block



BVW-75(5)
BVW-75PM (1)



No.	Part No.	SP	Description
1501	A-6704-263-B	o	PANEL ASS'Y, KEY
1502	3-717-381-01	s	PUSH BUTTON (15 x 8)
1503	3-717-380-01	o	GUARD, REC
1504	3-717-378-01	o	FRAME (20 x 13), ORNAMENTAL, BUTTON
1505	3-717-377-01	o	FRAME (SQUARE 17), ORNAMENTAL
1506	3-668-007-11	s	PUSH BUTTON, 5 x 9 (WHITE)
1507	3-717-374-01	o	FRAME (23 x 12), ORNAMENTAL, SW
1508	3-717-375-01	o	FRAME (18 x 12), ORNAMENTAL, SW
1509	3-717-379-01	o	FRAME (SQUARE 14), ORNAMENTAL
1510	3-717-425-01	o	HANDLE
1511	3-668-009-02	s	PIN, PUSH BUTTON
1512	4-309-349-00	s	SPRING, COIL
1513	3-717-382-01	s	KNOB, LEVER, SW
1515	3-668-008-02	s	PUSH BUTTON (3 x 5)
1516	X-3717-237-1	s	KNOB ASS'Y, VOL
1517	X-3717-245-4	o	PANEL SUB ASS'Y, FRONT
1518	3-717-479-01	o	LABEL, MODEL
1519	3-717-482-01	o	CABINET (LEFT)
1520	X-3642-018-0	s	HANDLE ASS'Y
1521	A-6730-932-A	s	STAY ASS'Y, CASSETTE COMPARTMENT
1522	A-6703-640-A	o	LID ASS'Y, UPPER
1523	3-717-392-01	o	SCREW, LID
1524	3-688-102-01	o	SPACER, M4
1525	3-717-306-01	o	SPRING
1526	3-717-483-01	o	CABINET (RIGHT)
1527	3-642-656-01	s	FOOT
1528	3-717-437-01	s	PLATE, BOTTOM
1529	3-717-370-01	o	KNOB, DIAL
1530	3-717-557-01	o	PLATE, KNOB
1531	3-668-012-03	s	RUBBER, DIAL KNOB
1532	X-3717-261-1	s	KNOB ASS'Y, VOL
1533	3-717-613-01	o	PLATE ORNAMENTAL, LEVER SW
1534	3-668-007-02	s	PUSH BUTTON, 5 x 9 (BLACK)

19-3. ELECTRICAL PARTS LIST

General Purpose Electrical Parts List

Parts that are not listed in the "reference numbers order list" are shown in following list.
Reference numbers are omitted.

ABBREVIATIONS

All capacitors are in micro farads unless otherwise specified.

All inductors are in micro henries unless otherwise specified.

All resistors are in ohms.

- 1) marked parts are for serial No. 13028 through 13175. (UC)
- 2) marked parts are for serial No. 13176 and higher. (UC)
- 3) marked parts are for serial No. 13028 through 13225. (UC)
- 4) marked parts are for serial No. 13226 and higher. (UC)
- 5) marked parts are for serial No. 13028 through 13325. (UC)
- 6) marked parts are for serial No. 13326 and higher. (UC)
- 7) marked parts are for serial No. 13028 through 13410. (UC)
- 8) marked parts are for serial No. 13661 and higher. (UC)
- 9) marked parts are for serial No. 13028 through 13780. (UC)
- 10) marked parts are for serial No. 13781 and higher. (UC)
- 11) marked parts are for serial No. 13028 through 13974. (UC)
- 12) marked parts are for serial No. 13975 and higher. (UC)
- 13) marked parts are for serial No. 13028 through 14368. (UC)

- 1) marked parts are for serial No. 11104 through 11203. (J)
- 2) marked parts are for serial No. 11204 and higher. (J)
- 3),5) marked parts are for serial No. 11104 through 11303. (J)
- 4),6) marked parts are for serial No. 11304 and higher. (J)
- 7) marked parts are for serial No. 11104 through 11403. (J)
- 8) marked parts are for serial No. 11499 and higher. (J)
- 9),11) marked parts are for serial No. 11104 through 11568. (J)
- 10),12) marked parts are for serial No. 11569 and higher. (J)
- 13) marked parts are for serial No. 11104 through 11668. (J)

Parts No.	SP	Description
CAPACITOR, CERAMIC, SBL		
1-161-039-00	s	CAP, CERAMIC 0.001 10% 50V
1-161-041-00	s	CAP, CERAMIC 0.0015 10% 50V
1-161-043-00	s	CAP, CERAMIC 0.0022 10% 50V
1-161-045-00	s	CAP, CERAMIC 0.0033 10% 50V
1-161-047-00	s	CAP, CERAMIC 0.0047 10% 50V

1-161-049-00	s	CAP, CERAMIC 0.0068 10% 50V
1-161-051-00	s	CAP, CERAMIC 0.01 10% 50V
1-161-053-00	s	CAP, CERAMIC 0.015 10% 50V
1-161-055-00	s	CAP, CERAMIC 0.022 10% 50V
1-161-057-00	s	CAP, CERAMIC 0.033 10% 50V
1-161-021-11	s	CAP, CERAMIC 0.047 10% 25V
1-161-059-00	s	CAP, CERAMIC 0.047 10% 50V
1-161-061-00	s	CAP, CERAMIC 0.068 10% 50V
1-161-772-11	s	CAP, CERAMIC 0.1 10% 25V
1-161-063-00	s	CAP, CERAMIC 0.1 10% 50V

CAPACITOR, CHIP CERAMIC				
1-163-083-00	s	CAP, CHIP CERAMIC	1pF	+0.25pF 50V
1-163-085-00	s	CAP, CHIP CERAMIC	2pF	+0.25pF 50V
1-163-087-00	s	CAP, CHIP CERAMIC	4pF	+0.25pF 50V
1-163-089-00	s	CAP, CHIP CERAMIC	6pF	+0.5pF 50V
1-163-091-00	s	CAP, CHIP CERAMIC	8pF	+0.5pF 50V
1-163-093-00	s	CAP, CHIP CERAMIC	10pF	5% 50V
1-163-097-00	s	CAP, CHIP CERAMIC	15pF	5% 50V
1-163-101-00	s	CAP, CHIP CERAMIC	22pF	5% 50V
1-163-105-00	s	CAP, CHIP CERAMIC	33pF	5% 50V
1-163-109-00	s	CAP, CHIP CERAMIC	47pF	5% 50V
1-163-113-00	s	CAP, CHIP CERAMIC	68pF	5% 50V
1-163-117-00	s	CAP, CHIP CERAMIC	100pF	5% 50V
1-163-121-00	s	CAP, CHIP CERAMIC	150pF	5% 50V
1-163-125-00	s	CAP, CHIP CERAMIC	220pF	5% 50V
1-163-129-00	s	CAP, CHIP CERAMIC	330pF	5% 50V
1-163-133-00	s	CAP, CHIP CERAMIC	470pF	5% 50V
1-163-137-00	s	CAP, CHIP CERAMIC	680pF	5% 50V
1-163-141-00	s	CAP, CHIP CERAMIC	1000pF	5% 50V
1-163-145-00	s	CAP, CHIP CERAMIC	1500pF	10% 50V
1-163-013-00	s	CAP, CHIP CERAMIC	2200pF	10% 50V
1-163-015-00	s	CAP, CHIP CERAMIC	3300pF	10% 50V
1-163-017-00	s	CAP, CHIP CERAMIC	4700pF	10% 50V
1-163-019-00	s	CAP, CHIP CERAMIC	6800pF	10% 50V
1-163-021-00	s	CAP, CHIP CERAMIC	0.01	10% 50V
1-163-023-00	s	CAP, CHIP CERAMIC	0.015	10% 50V
1-163-034-00	s	CAP, CHIP CERAMIC	0.033	50V
1-163-035-00	s	CAP, CHIP CERAMIC	0.047	50V
1-163-036-00	s	CAP, CHIP CERAMIC	0.068	50V
1-163-038-00	s	CAP, CHIP CERAMIC	0.1	50V

Parts No.	SP	Description
CAPACITOR, ELECTROLYTIC		
1-124-902-00	s	CAP, ELECT 0.47 20% 50V
1-124-791-11	s	CAP, ELECT 1.0 20% 100V
1-124-925-11	s	CAP, ELECT 2.2 20% 100V
1-123-382-00	s	CAP, ELECT 3.3 20% 100V
1-124-927-00	s	CAP, ELECT 4.7 20% 100V
1-123-875-91	s	CAP, ELECT 10 20% 50V
1-124-908-11	s	CAP, ELECT 22 20% 50V
1-124-963-11	s	CAP, ELECT 33 20% 16V
1-124-482-11	s	CAP, ELECT 33 20% 35V
1-124-917-11	s	CAP, ELECT 33 20% 63V
1-124-446-11	s	CAP, ELECT 47 20% 10V
1-124-477-11	s	CAP, ELECT 47 20% 25V
1-124-910-11	s	CAP, ELECT 47 20% 50V
1-124-443-00	s	CAP, ELECT 100 20% 10V
1-126-101-11	s	CAP, ELECT 100 20% 16V
1-124-478-11	s	CAP, ELECT 100 20% 25V
1-124-122-11	s	CAP, ELECT 100 20% 50V
1-124-444-00	s	CAP, ELECT 220 20% 10V
1-124-120-11	s	CAP, ELECT 220 20% 25V
1-124-484-11	s	CAP, ELECT 220 20% 35V
1-124-911-11	s	CAP, ELECT 220 20% 50V
1-124-442-00	s	CAP, ELECT 330 20% 6.3V
1-124-604-00	s	CAP, ELECT 330 20% 10V
1-124-119-00	s	CAP, ELECT 330 20% 16V
1-124-479-11	s	CAP, ELECT 330 20% 25V
1-124-485-11	s	CAP, ELECT 330 20% 35V
1-124-912-11	s	CAP, ELECT 330 20% 50V
1-124-472-11	s	CAP, ELECT 470 20% 10V
1-124-475-11	s	CAP, ELECT 470 20% 16V
1-124-480-11	s	CAP, ELECT 470 20% 25V
1-126-104-11	s	CAP, ELECT 470 20% 35V
1-124-913-11	s	CAP, ELECT 470 20% 50V

CAPACITOR, MICA, SILVERED				
1-107-019-00	s	CAP, MICA	1.0pF	+0.5pF 500V
1-107-039-00	s	CAP, MICA	1.2pF	+0.5pF 500V
1-107-040-00	s	CAP, MICA	1.5pF	+0.5pF 500V
1-107-041-00	s	CAP, MICA	1.8pF	+0.5pF 500V
1-107-042-00	s	CAP, MICA	2.2pF	+0.5pF 500V
1-107-043-00	s	CAP, MICA	2.7pF	+0.5pF 500V
1-107-044-00	s	CAP, MICA	3.3pF	+0.5pF 500V
1-107-045-00	s	CAP, MICA	3.9pF	+0.5pF 500V
1-107-046-00	s	CAP, MICA	4.7pF	+0.5pF 500V
1-107-026-00	s	CAP, MICA	5.1pF	+0.5pF 500V
1-107-047-00	s	CAP, MICA	5.6pF	+0.5pF 500V
1-107-048-00	s	CAP, MICA	6.8pF	+0.5pF 500V
1-107-049-00	s	CAP, MICA	8.2pF	+0.5pF 500V
1-107-202-00	s	CAP, MICA	10pF	5% 500V
1-107-203-00	s	CAP, MICA	11pF	5% 500V
1-107-204-00	s	CAP, MICA	12pF	5% 500V
1-107-205-00	s	CAP, MICA	13pF	5% 500V
1-107-206-00	s	CAP, MICA	15pF	5% 500V
1-107-207-00	s	CAP, MICA	16pF	5% 500V
1-107-208-00	s	CAP, MICA	18pF	5% 500V
1-107-209-00	s	CAP, MICA	20pF	5% 500V
1-107-210-00	s	CAP, MICA	22pF	5% 500V
1-107-211-00	s	CAP, MICA	24pF	5% 500V
1-107-157-00	s	CAP, MICA	27pF	5% 500V
1-107-158-00	s	CAP, MICA	30pF	5% 500V

Parts No.	SP	Description			
1-107-159-00	s	CAP, MICA 33pF	5%	500V	
1-107-074-00	s	CAP, MICA 36pF	5%	50V	
1-107-075-00	s	CAP, MICA 39pF	5%	50V	
1-107-076-00	s	CAP, MICA 43pF	5%	50V	
1-107-077-00	s	CAP, MICA 47pF	5%	50V	
1-107-164-00	s	CAP, MICA 51pF	5%	500V	
1-107-165-00	s	CAP, MICA 56pF	5%	500V	
1-107-166-00	s	CAP, MICA 62pF	5%	500V	
1-107-036-00	s	CAP, MICA 68pF	5%	500V	
1-107-167-00	s	CAP, MICA 75pF	5%	500V	
1-107-083-00	s	CAP, MICA 82pF	5%	50V	
1-107-084-00	s	CAP, MICA 91pF	5%	50V	
1-107-085-00	s	CAP, MICA 100pF	5%	50V	
1-107-086-00	s	CAP, MICA 110pF	5%	50V	
1-107-087-00	s	CAP, MICA 120pF	5%	50V	
1-109-538-00	s	CAP, MICA 130pF	5%	100V	
1-109-539-00	s	CAP, MICA 150pF	5%	100V	
1-107-090-00	s	CAP, MICA 160pF	5%	50V	
1-109-540-00	s	CAP, MICA 180pF	5%	100V	
1-109-541-00	s	CAP, MICA 200pF	5%	100V	
1-109-542-00	s	CAP, MICA 220pF	5%	100V	
1-109-545-00	s	CAP, MICA 270pF	5%	100V	
1-109-547-00	s	CAP, MICA 330pF	5%	100V	
1-109-549-00	s	CAP, MICA 390pF	5%	100V	
1-109-633-00	s	CAP, MICA 470pF	2%	500V	
1-109-555-00	s	CAP, MICA 560pF	5%	100V	
1-109-635-00	s	CAP, MICA 470pF	2%	500V	

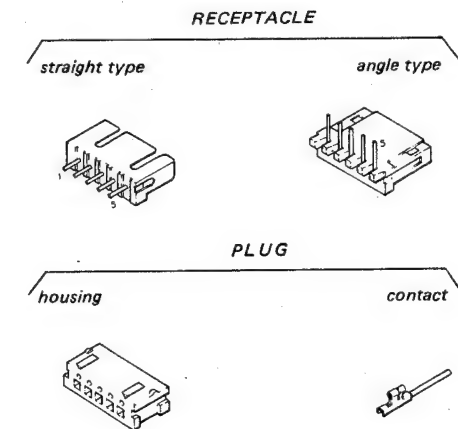
CAPACITOR, MYLAR

1-130-467-00	s	CAP, MYLAR 470pF	5%	50V	
1-130-468-00	s	CAP, MYLAR 560pF	5%	50V	
1-130-469-00	s	CAP, MYLAR 680pF	5%	50V	
1-130-470-00	s	CAP, MYLAR 820pF	5%	50V	
1-130-471-00	s	CAP, MYLAR 1000pF	5%	50V	
1-130-472-00	s	CAP, MYLAR 1200pF	5%	50V	
1-130-473-00	s	CAP, MYLAR 1500pF	5%	50V	
1-130-474-00	s	CAP, MYLAR 1800pF	5%	50V	
1-130-475-00	s	CAP, MYLAR 2200pF	5%	50V	
1-130-476-00	s	CAP, MYLAR 2700pF	5%	50V	
1-130-477-00	s	CAP, MYLAR 3300pF	5%	50V	
1-130-478-00	s	CAP, MYLAR 3900pF	5%	50V	
1-130-479-00	s	CAP, MYLAR 4700pF	5%	50V	
1-130-480-00	s	CAP, MYLAR 5600pF	5%	50V	
1-130-481-00	s	CAP, MYLAR 6800pF	5%	50V	
1-130-482-00	s	CAP, MYLAR 8200pF	5%	50V	
1-130-483-00	s	CAP, MYLAR 0.01	5%	50V	
1-130-484-00	s	CAP, MYLAR 0.012	5%	50V	
1-130-485-00	s	CAP, MYLAR 0.015	5%	50V	
1-130-486-00	s	CAP, MYLAR 0.018	5%	50V	
1-130-487-00	s	CAP, MYLAR 0.022	5%	50V	
1-130-488-00	s	CAP, MYLAR 0.027	5%	50V	
1-130-489-00	s	CAP, MYLAR 0.033	5%	50V	
1-130-490-11	s	CAP, MYLAR 0.039	5%	50V	
1-130-491-00	s	CAP, MYLAR 0.047	5%	50V	
1-130-492-11	s	CAP, MYLAR 0.056	5%	50V	
1-130-493-00	s	CAP, MYLAR 0.068	5%	50V	
1-130-494-11	s	CAP, MYLAR 0.082	5%	50V	
1-130-495-00	s	CAP, MYLAR 0.1	5%	50V	
1-130-496-00	s	CAP, MYLAR 0.12	5%	50V	
1-130-497-00	s	CAP, MYLAR 0.15	5%	50V	
1-130-498-00	s	CAP, MYLAR 0.18	5%	50V	
1-130-499-00	s	CAP, MYLAR 0.22	5%	50V	
1-136-502-11	s	CAP, MYLAR 0.33	5%	50V	

Parts No.	SP	Description			
<u>CAPACITOR, TANTALUM</u>					
1-131-396-11	s	CAP, TANTALUM 0.01	20%	35V	
1-131-397-11	s	CAP, TANTALUM 0.015	20%	35V	
1-131-398-11	s	CAP, TANTALUM 0.022	20%	35V	
1-131-399-11	s	CAP, TANTALUM 0.033	20%	35V	
1-131-400-11	s	CAP, TANTALUM 0.047	20%	35V	
1-131-401-21	s	CAP, TANTALUM 0.068	10%	35V	
1-131-341-21	s	CAP, TANTALUM 0.1	10%	35V	
1-131-342-21	s	CAP, TANTALUM 0.15	10%	35V	
1-131-343-21	s	CAP, TANTALUM 0.22	10%	35V	
1-131-344-21	s	CAP, TANTALUM 0.33	10%	35V	
1-131-412-11	s	CAP, TANTALUM 0.47	20%	20V	
1-131-345-21	s	CAP, TANTALUM 0.47	10%	35V	
1-131-410-11	s	CAP, TANTALUM 0.68	20%	25V	
1-131-346-21	s	CAP, TANTALUM 0.68	10%	35V	
1-131-413-11	s	CAP, TANTALUM 1.0	20%	20V	
1-131-347-21	s	CAP, TANTALUM 1.0	10%	35V	
1-131-416-11	s	CAP, TANTALUM 1.5	20%	16V	
1-131-348-21	s	CAP, TANTALUM 1.5	10%	35V	
1-131-419-11	s	CAP, TANTALUM 2.2	20%	10V	
1-131-361-21	s	CAP, TANTALUM 2.2	10%	20V	
1-131-349-21	s	CAP, TANTALUM 2.2	10%	35V	
1-131-422-11	s	CAP, TANTALUM 3.3	20%	6.3V	
1-131-368-21	s	CAP, TANTALUM 3.3	10%	16V	
1-131-356-21	s	CAP, TANTALUM 3.3	10%	25V	
1-131-350-21	s	CAP, TANTALUM 3.3	10%	35V	
1-131-425-11	s	CAP, TANTALUM 4.7	20%	3.15V	
1-131-375-21	s	CAP, TANTALUM 4.7	10%	10V	
1-131-363-21	s	CAP, TANTALUM 4.7	10%	20V	
1-131-351-21	s	CAP, TANTALUM 4.7	10%	35V	
1-131-382-21	s	CAP, TANTALUM 6.8	10%	6.3V	
1-131-370-21	s	CAP, TANTALUM 6.8	10%	16V	
1-131-358-21	s	CAP, TANTALUM 6.8	10%	25V	
1-131-352-21	s	CAP, TANTALUM 6.8	10%	35V	
1-131-384-21	s	CAP, TANTALUM 15	10%	6.3V	
1-131-372-21	s	CAP, TANTALUM 15	10%	16V	
1-131-360-21	s	CAP, TANTALUM 15	10%	25V	
1-131-365-21	s	CAP, TANTALUM 10	10%	20V	
1-131-353-21	s	CAP, TANTALUM 10	10%	35V	
1-131-384-21	s	CAP, TANTALUM 15	10%	6.3V	
1-131-372-21	s	CAP, TANTALUM 15	10%	16V	
1-131-360-21	s	CAP, TANTALUM 15	10%	25V	
1-131-391-21	s	CAP, TANTALUM 22	10%	3.15V	
1-131-379-21	s	CAP, TANTALUM 22	10%	10V	
1-131-367-21	s	CAP, TANTALUM 22	10%	20V	
1-131-386-21	s	CAP, TANTALUM 33	10%	6.3V	
1-131-374-21	s	CAP, TANTALUM 33	10%	16V	
1-131-393-21	s	CAP, TANTALUM 47	10%	3.15V	
1-131-381-21	s	CAP, TANTALUM 47	10%	10V	
1-131-388-21	s	CAP, TANTALUM 68	10%	6.3V	
1-131-395-21	s	CAP, TANTALUM 100	10%	3.15V	

Parts No.	SP	Description			
<u>CONNECTOR</u>					
1-564-001-11	o	RECEPTACLE 2P MALE (STRAIGHT TYPE)			
1-564-012-11	o	RECEPTACLE 2P MALE (ANGLE TYPE)			
1-562-147-11	o	HOUSING 2P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-002-11	o	RECEPTACLE 3P MALE (STRAIGHT TYPE)			
1-564-013-11	o	RECEPTACLE 3P MALE (ANGLE TYPE)			
1-562-148-11	o	HOUSING 3P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-003-11	o	RECEPTACLE 4P MALE (STRAIGHT TYPE)			
1-564-014-11	o	RECEPTACLE 4P MALE (ANGLE TYPE)			
1-562-149-11	o	HOUSING 4P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-004-11	o	RECEPTACLE 5P MALE (STRAIGHT TYPE)			
1-564-015-11	o	RECEPTACLE 5P MALE (ANGLE TYPE)			
1-562-150-11	o	HOUSING 5P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-005-11	o	RECEPTACLE 6P MALE (STRAIGHT TYPE)			
1-564-016-11	o	RECEPTACLE 6P MALE (ANGLE TYPE)			
1-562-151-11	o	HOUSING 6P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-006-11	o	RECEPTACLE 7P MALE (STRAIGHT TYPE)			
1-564-017-11	o	RECEPTACLE 7P MALE (ANGLE TYPE)			
1-562-152-11	o	HOUSING 7P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-007-11	o	RECEPTACLE 8P MALE (STRAIGHT TYPE)			
1-564-018-11	o	RECEPTACLE 8P MALE (ANGLE TYPE)			
1-562-153-11	o	HOUSING 8P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-008-41	o	RECEPTACLE 9P MALE (STRAIGHT TYPE)			
1-564-019-11	o	RECEPTACLE 9P MALE (ANGLE TYPE)			
1-562-154-11	o	HOUSING 9P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-009-11	o	RECEPTACLE 10P MALE (STRAIGHT TYPE)			
1-564-020-11	o	RECEPTACLE 10P MALE (ANGLE TYPE)			
1-562-155-11	o	HOUSING 10P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-010-21	o	RECEPTACLE 11P MALE (STRAIGHT TYPE)			
1-564-021-11	o	RECEPTACLE 11P MALE (ANGLE TYPE)			
1-562-156-11	o	HOUSING 11P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-011-11	o	RECEPTACLE 12P MALE (STRAIGHT TYPE)			
1-564-022-11	o	RECEPTACLE 12P MALE (ANGLE TYPE)			
1-562-157-11	o	HOUSING 12P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			

Parts No.	SP	Description			
1-564-683-11	o	RECEPTACLE 13P MALE (STRAIGHT TYPE)			
1-564-743-11	o	RECEPTACLE 13P MALE (ANGLE TYPE)			
1-562-627-11	o	HOUSING 13P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-069-11	o	RECEPTACLE 14P MALE (STRAIGHT TYPE)			
1-564-630-11	o	RECEPTACLE 14P MALE (ANGLE TYPE)			
1-562-185-11	o	HOUSING 14P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			
1-564-855-11	o	RECEPTACLE 15P MALE (STRAIGHT TYPE)			
1-564-877-11	o	RECEPTACLE 15P MALE (ANGLE TYPE)			
1-562-958-11	o	HOUSING 15P			
1-564-026-21	o	CONTACT AWG24-30			
1-564-681-21	o	CONTACT AWG32			



Parts No. SP Description

INDUCTOR, MICRO

1-408-397-00	s	INDUCTOR, MICRO	1.0	5%
1-408-399-00	s	INDUCTOR, MICRO	1.5	5%
1-408-400-00	s	INDUCTOR, MICRO	1.8	5%
1-408-401-00	s	INDUCTOR, MICRO	2.2	5%
1-408-403-00	s	INDUCTOR, MICRO	3.3	5%
1-408-404-00	s	INDUCTOR, MICRO	3.9	5%
1-408-405-00	s	INDUCTOR, MICRO	4.7	5%
1-408-406-00	s	INDUCTOR, MICRO	5.6	5%
1-408-407-00	s	INDUCTOR, MICRO	6.8	5%
1-408-408-00	s	INDUCTOR, MICRO	8.2	5%
1-408-409-00	s	INDUCTOR, MICRO	10	5%
1-408-410-00	s	INDUCTOR, MICRO	12	5%
1-408-411-00	s	INDUCTOR, MICRO	15	5%
1-408-412-00	s	INDUCTOR, MICRO	18	5%
1-408-413-00	s	INDUCTOR, MICRO	22	5%
1-408-414-00	s	INDUCTOR, MICRO	27	5%
1-408-415-00	s	INDUCTOR, MICRO	33	5%
1-408-416-00	s	INDUCTOR, MICRO	39	5%
1-408-417-00	s	INDUCTOR, MICRO	47	5%
1-408-418-00	s	INDUCTOR, MICRO	56	5%
1-408-419-00	s	INDUCTOR, MICRO	68	5%
1-408-420-00	s	INDUCTOR, MICRO	82	5%
1-408-421-00	s	INDUCTOR, MICRO	100	5%
1-408-422-00	s	INDUCTOR, MICRO	120	5%
1-408-423-00	s	INDUCTOR, MICRO	150	5%
1-408-424-00	s	INDUCTOR, MICRO	180	5%
1-408-425-00	s	INDUCTOR, MICRO	220	5%
1-408-426-00	s	INDUCTOR, MICRO	270	5%
1-408-427-00	s	INDUCTOR, MICRO	330	5%
1-408-428-00	s	INDUCTOR, MICRO	390	5%
1-408-429-00	s	INDUCTOR, MICRO	470	5%
1-410-116-11	s	INDUCTOR, MICRO	560	5%
1-410-492-11	s	INDUCTOR, MICRO	680	5%
1-410-493-11	s	INDUCTOR, MICRO	820	5%
1-410-494-11	s	INDUCTOR, MICRO	1000	5%

Parts No. SP Description

RESISTOR, CARBON

1-249-381-11	s	RES, CARBON	1.0	5%	1/6W
1-249-382-11	s	RES, CARBON	1.2	5%	1/6W
1-249-383-11	s	RES, CARBON	1.5	5%	1/6W
1-249-384-11	s	RES, CARBON	1.8	5%	1/6W
1-249-385-11	s	RES, CARBON	2.2	5%	1/6W
1-249-386-11	s	RES, CARBON	2.7	5%	1/6W
1-249-387-11	s	RES, CARBON	3.3	5%	1/6W
1-249-388-11	s	RES, CARBON	3.9	5%	1/6W
1-249-389-11	s	RES, CARBON	4.7	5%	1/6W
1-249-390-11	s	RES, CARBON	5.6	5%	1/6W
1-249-391-11	s	RES, CARBON	6.8	5%	1/6W
1-249-392-11	s	RES, CARBON	8.2	5%	1/6W
1-249-393-11	s	RES, CARBON	10	5%	1/6W
1-249-394-11	s	RES, CARBON	12	5%	1/6W
1-249-395-11	s	RES, CARBON	15	5%	1/6W
1-249-396-11	s	RES, CARBON	18	5%	1/6W
1-249-397-11	s	RES, CARBON	22	5%	1/6W
1-249-398-11	s	RES, CARBON	27	5%	1/6W
1-249-399-11	s	RES, CARBON	33	5%	1/6W
1-249-400-11	s	RES, CARBON	39	5%	1/6W
1-249-401-11	s	RES, CARBON	47	5%	1/6W
1-249-402-11	s	RES, CARBON	56	5%	1/6W
1-249-403-11	s	RES, CARBON	68	5%	1/6W
1-249-404-11	s	RES, CARBON	82	5%	1/6W
1-249-405-11	s	RES, CARBON	100	5%	1/6W
1-249-406-11	s	RES, CARBON	120	5%	1/6W
1-249-407-11	s	RES, CARBON	150	5%	1/6W
1-249-408-11	s	RES, CARBON	180	5%	1/6W
1-249-409-11	s	RES, CARBON	220	5%	1/6W
1-249-410-11	s	RES, CARBON	270	5%	1/6W
1-249-411-11	s	RES, CARBON	330	5%	1/6W
1-249-412-11	s	RES, CARBON	390	5%	1/6W
1-249-413-11	s	RES, CARBON	470	5%	1/6W
1-249-414-11	s	RES, CARBON	560	5%	1/6W
1-249-415-11	s	RES, CARBON	680	5%	1/6W
1-249-416-11	s	RES, CARBON	820	5%	1/6W
1-249-417-11	s	RES, CARBON	1.0k	5%	1/6W
1-249-418-11	s	RES, CARBON	1.2k	5%	1/6W
1-249-419-11	s	RES, CARBON	1.5k	5%	1/6W
1-249-420-11	s	RES, CARBON	1.8k	5%	1/6W
1-249-421-11	s	RES, CARBON	2.2k	5%	1/6W
1-249-422-11	s	RES, CARBON	2.7k	5%	1/6W
1-249-423-11	s	RES, CARBON	3.3k	5%	1/6W
1-249-424-11	s	RES, CARBON	3.9k	5%	1/6W
1-249-425-11	s	RES, CARBON	4.7k	5%	1/6W
1-249-426-11	s	RES, CARBON	5.6k	5%	1/6W
1-249-427-11	s	RES, CARBON	6.8k	5%	1/6W
1-249-428-11	s	RES, CARBON	8.2k	5%	1/6W
1-249-429-11	s	RES, CARBON	10k	5%	1/6W
1-249-430-11	s	RES, CARBON	12k	5%	1/6W
1-249-431-11	s	RES, CARBON	15k	5%	1/6W
1-249-432-11	s	RES, CARBON	18k	5%	1/6W
1-249-433-11	s	RES, CARBON	22k	5%	1/6W
1-249-434-11	s	RES, CARBON	27k	5%	1/6W
1-249-435-11	s	RES, CARBON	33k	5%	1/6W
1-249-436-11	s	RES, CARBON	39k	5%	1/6W
1-249-437-11	s	RES, CARBON	47k	5%	1/6W
1-249-438-11	s	RES, CARBON	56k	5%	1/6W
1-249-439-11	s	RES, CARBON	68k	5%	1/6W
1-249-440-11	s	RES, CARBON	82k	5%	1/6W
1-249-441-11	s	RES, CARBON	100k	5%	1/6W

Parts No. SP Description

RESISTOR, CHIP

1-216-295-00	s	RES, CHIP	0	5%	1/10W
1-216-298-00	s	RES, CHIP	2.2	5%	1/10W
1-216-302-00	s	RES, CHIP	2.7	5%	1/10W
1-216-304-00	s	RES, CHIP	3.3	5%	1/10W
1-216-306-00	s	RES, CHIP	3.9	5%	1/10W
1-216-308-00	s	RES, CHIP	4.7	5%	1/10W
1-216-309-00	s	RES, CHIP	5.6	5%	1/10W
1-216-311-00	s	RES, CHIP	6.8	5%	1/10W
1-216-313-00	s	RES, CHIP	8.2	5%	1/10W
1-216-001-00	s	RES, CHIP	10	5%	1/10W
1-216-003-00	s	RES, CHIP	12	5%	1/10W
1-216-005-00	s	RES, CHIP	15	5%	1/10W
1-216-007-00	s	RES, CHIP	18	5%	1/10W
1-216-009-00	s	RES, CHIP	22	5%	1/10W
1-216-011-00	s	RES, CHIP	27	5%	1/10W
1-216-013-00	s	RES, CHIP	33	5%	1/10W
1-216-015-00	s	RES, CHIP	39	5%	1/10W
1-216-017-00	s	RES, CHIP	47	5%	1/10W
1-216-019-00	s	RES, CHIP	56	5%	1/10W
1-216-021-00	s	RES, CHIP	68	5%	1/10W
1-216-023-00	s	RES, CHIP	82	5%	1/10W
1-216-025-00	s	RES, CHIP	100	5%	1/10W
1-216-027-00	s	RES, CHIP	120	5%	1/10W
1-216-029-00	s	RES, CHIP	150	5%	1/10W
1-216-031-00	s	RES, CHIP	180	5%	1/10W
1-216-033-00	s	RES, CHIP	220	5%	1/10W
1-216-035-00	s	RES, CHIP	270	5%	1/10W
1-216-037-00	s	RES, CHIP	330	5%	1/10W
1-216-039-00	s	RES, CHIP	390	5%	1/10W
1-216-041-00	s	RES, CHIP	470	5%	1/10W
1-216-043-00	s	RES, CHIP	560	5%	1/10W
1-216-045-00	s	RES, CHIP	680	5%	1/10W
1-216-047-00	s	RES, CHIP	820	5%	1/10W
1-216-049-00	s	RES, CHIP	1k	5%	1/10W
1-216-051-00	s	RES, CHIP	1.2k	5%	1/10W
1-216-053-00	s	RES, CHIP	1.5k	5%	1/10W
1-216-055-00	s	RES, CHIP	1.8k	5%	1/10W
1-216-057-00	s	RES, CHIP	2.2k	5%	1/10W
1-216-059-00	s	RES, CHIP	2.7k	5%	1/10W
1-216-061-00	s	RES, CHIP	3.3k	5%	1/10W
1-216-063-00	s	RES, CHIP	3.9k	5%	1/10W
1-216-065-00	s	RES, CHIP	4.7k	5%	1/10W
1-216-067-00	s	RES, CHIP	5.6k	5%	1/10W
1-216-069-00	s	RES, CHIP	6.8k	5%	1/10W
1-216-071-00	s	RES, CHIP	8.2k	5%	1/10W
1-216-073-00	s	RES, CHIP	10k	5%	1/10W
1-216-075-00	s	RES, CHIP	12k	5%	1/10W
1-216-077-00	s	RES, CHIP	15k	5%	1/10W
1-216-079-00	s	RES, CHIP	18k	5%	1/10W
1-216-081-00	s	RES, CHIP	22k	5%	1/10W
1-216-083-00	s	RES, CHIP	27k	5%	1/10W
1-216-085-00	s	RES, CHIP	33k	5%	1/10W
1-216-087-00	s	RES, CHIP	39k	5%	1/10W
1-216-089-00	s	RES, CHIP	47k	5%	1/10W
1-216-091-00	s	RES, CHIP	56k	5%	1/10W

Parts No. SP Description

1-216-093-00	s	RES, CHIP	68k	5%	1/10W
1-216-095-00	s	RES, CHIP	82k	5%	1/10W
1-216-097-00	s	RES, CHIP	100k	5%	1/10W
1-216-099-00	s	RES, CHIP	120k	5%	1/10W
1-216-101-00	s	RES, CHIP	150k	5%	1/10W
1-216-103-00	s	RES, CHIP	180k	5%	1/10W
1-216-105-00	s	RES, CHIP	220k	5%	1/10W
1-216-107-00	s	RES, CHIP	270k	5%	1/10W
1-216-109-00	s	RES, CHIP	330k	5%	1/10W
1-216-111-00	s	RES, CHIP	390k	5%	1/10W
1-216-113-00	s	RES, CHIP	470k	5%	1/10W
1-216-115-00	s	RES, CHIP	560k	5%	1/10W
1-216-117-00	s	RES, CHIP	680k	5%	1/10W
1-216-119-00	s	RES, CHIP	820k	5%	1/10W
1-216-121-00	s	RES, CHIP	1.0M	5%	1/10W
1-216-123-00	s	RES, CHIP	1.2M	5%	1/10W
1-216-125-00	s	RES, CHIP	1.5M	5%	1/10W
1-216-127-00	s	RES, CHIP	1.8M	5%	1/10W
1-216-129-00	s	RES, CHIP	2.2M	5%	1/10W
1-216-131-00	s	RES, CHIP	2.7M	5%	1/10W
1-216-133-00	s	RES, CHIP	3.3M	5%	1/10W

Parts No. SP Description

RESISTOR, METAL

1-215-373-31	s	RES, METAL	10	1% 1/6W
1-215-374-00	s	RES, METAL	11	1% 1/6W
1-215-375-00	s	RES, METAL	12	1% 1/6W
1-215-376-00	s	RES, METAL	13	1% 1/6W
1-215-377-00	s	RES, METAL	15	1% 1/6W
1-215-378-00	s	RES, METAL	16	1% 1/6W
1-215-379-00	s	RES, METAL	18	1% 1/6W
1-215-380-00	s	RES, METAL	20	1% 1/6W
1-215-381-00	s	RES, METAL	22	1% 1/6W
1-215-382-00	s	RES, METAL	24	1% 1/6W
1-215-383-00	s	RES, METAL	27	1% 1/6W
1-215-384-00	s	RES, METAL	30	1% 1/6W
1-215-385-00	s	RES, METAL	33	1% 1/6W
1-215-386-00	s	RES, METAL	36	1% 1/6W
1-215-387-00	s	RES, METAL	39	1% 1/6W
1-215-388-00	s	RES, METAL	43	1% 1/6W
1-215-389-00	s	RES, METAL	47	1% 1/6W
1-215-390-00	s	RES, METAL	51	1% 1/6W
1-215-391-00	s	RES, METAL	56	1% 1/6W
1-215-392-00	s	RES, METAL	62	1% 1/6W
1-215-393-00	s	RES, METAL	68	1% 1/6W
1-215-394-00	s	RES, METAL	75	1% 1/6W
1-215-395-00	s	RES, METAL	82	1% 1/6W
1-215-396-00	s	RES, METAL	91	1% 1/6W
1-215-397-00	s	RES, METAL	100	1% 1/6W
1-215-398-00	s	RES, METAL	110	1% 1/6W
1-215-399-00	s	RES, METAL	120	1% 1/6W
1-215-400-00	s	RES, METAL	130	1% 1/6W
1-215-401-00	s	RES, METAL	150	1% 1/6W
1-215-402-00	s	RES, METAL	160	1% 1/6W
1-215-403-00	s	RES, METAL	180	1% 1/6W
1-215-404-00	s	RES, METAL	200	1% 1/6W
1-215-405-00	s	RES, METAL	220	1% 1/6W
1-215-406-00	s	RES, METAL	240	1% 1/6W
1-215-407-00	s	RES, METAL	270	1% 1/6W
1-215-408-00	s	RES, METAL	300	1% 1/6W
1-215-409-00	s	RES, METAL	330	1% 1/6W
1-215-410-00	s	RES, METAL	360	1% 1/6W
1-215-411-00	s	RES, METAL	390	1% 1/6W
1-215-412-00	s	RES, METAL	430	1% 1/6W
1-215-413-00	s	RES, METAL	470	1% 1/6W
1-215-414-00	s	RES, METAL	510	1% 1/6W
1-215-415-00	s	RES, METAL	560	1% 1/6W
1-215-416-00	s	RES, METAL	620	1% 1/6W
1-215-417-00	s	RES, METAL	680	1% 1/6W
1-215-418-00	s	RES, METAL	750	1% 1/6W
1-215-419-00	s	RES, METAL	820	1% 1/6W
1-215-420-00	s	RES, METAL	910	1% 1/6W
1-215-421-00	s	RES, METAL	1.0k	1% 1/6W
1-215-422-00	s	RES, METAL	1.1k	1% 1/6W
1-215-423-00	s	RES, METAL	1.2k	1% 1/6W
1-215-424-00	s	RES, METAL	1.3k	1% 1/6W
1-215-425-00	s	RES, METAL	1.5k	1% 1/6W
1-215-426-00	s	RES, METAL	1.6k	1% 1/6W
1-215-427-00	s	RES, METAL	1.8k	1% 1/6W
1-215-428-00	s	RES, METAL	2.0k	1% 1/6W
1-215-429-00	s	RES, METAL	2.2k	1% 1/6W
1-215-430-00	s	RES, METAL	2.4k	1% 1/6W
1-215-431-00	s	RES, METAL	2.7k	1% 1/6W
1-215-432-00	s	RES, METAL	3.0k	1% 1/6W

Parts No. SP Description

1-215-433-00	s	RES, METAL	3.3k	1% 1/6W
1-215-434-00	s	RES, METAL	3.6k	1% 1/6W
1-215-435-00	s	RES, METAL	3.9k	1% 1/6W
1-215-436-00	s	RES, METAL	4.3k	1% 1/6W
1-215-437-00	s	RES, METAL	4.7k	1% 1/6W
1-215-438-00	s	RES, METAL	5.1k	1% 1/6W
1-215-439-00	s	RES, METAL	5.6k	1% 1/6W
1-215-440-00	s	RES, METAL	6.2k	1% 1/6W
1-215-441-00	s	RES, METAL	6.8k	1% 1/6W
1-215-442-00	s	RES, METAL	7.5k	1% 1/6W
1-215-443-00	s	RES, METAL	8.2k	1% 1/6W
1-215-444-00	s	RES, METAL	9.1k	1% 1/6W
1-215-445-00	s	RES, METAL	10k	1% 1/6W
1-215-446-00	s	RES, METAL	11k	1% 1/6W
1-215-447-00	s	RES, METAL	12k	1% 1/6W
1-215-448-00	s	RES, METAL	13k	1% 1/6W
1-215-449-00	s	RES, METAL	15k	1% 1/6W
1-215-450-00	s	RES, METAL	16k	1% 1/6W
1-215-451-00	s	RES, METAL	18k	1% 1/6W
1-215-452-00	s	RES, METAL	20k	1% 1/6W
1-215-453-00	s	RES, METAL	22k	1% 1/6W
1-215-454-00	s	RES, METAL	24k	1% 1/6W
1-215-455-00	s	RES, METAL	27k	1% 1/6W
1-215-456-00	s	RES, METAL	30k	1% 1/6W
1-215-457-00	s	RES, METAL	33k	1% 1/6W
1-215-458-00	s	RES, METAL	36k	1% 1/6W
1-215-459-00	s	RES, METAL	39k	1% 1/6W
1-215-460-00	s	RES, METAL	43k	1% 1/6W
1-215-461-00	s	RES, METAL	47k	1% 1/6W
1-215-462-00	s	RES, METAL	51k	1% 1/6W
1-215-463-00	s	RES, METAL	56k	1% 1/6W
1-215-464-00	s	RES, METAL	62k	1% 1/6W
1-215-465-00	s	RES, METAL	68k	1% 1/6W
1-215-466-00	s	RES, METAL	75k	1% 1/6W
1-215-467-00	s	RES, METAL	82k	1% 1/6W
1-215-468-00	s	RES, METAL	91k	1% 1/6W
1-215-469-00	s	RES, METAL	100k	1% 1/6W
1-215-470-00	s	RES, METAL	110k	1% 1/6W
1-215-471-00	s	RES, METAL	120k	1% 1/6W
1-215-472-00	s	RES, METAL	130k	1% 1/6W
1-215-473-00	s	RES, METAL	150k	1% 1/6W
1-215-474-00	s	RES, METAL	160k	1% 1/6W
1-215-475-00	s	RES, METAL	180k	1% 1/6W
1-215-476-00	s	RES, METAL	200k	1% 1/6W
1-215-477-00	s	RES, METAL	220k	1% 1/6W
1-215-478-00	s	RES, METAL	240k	1% 1/6W
1-215-479-00	s	RES, METAL	270k	1% 1/6W
1-215-480-00	s	RES, METAL	300k	1% 1/6W
1-215-481-00	s	RES, METAL	330k	1% 1/6W
1-215-482-00	s	RES, METAL	360k	1% 1/6W
1-215-483-00	s	RES, METAL	390k	1% 1/6W
1-215-484-00	s	RES, METAL	430k	1% 1/6W
1-215-485-00	s	RES, METAL	470k	1% 1/6W
1-215-486-00	s	RES, METAL	510k	1% 1/6W
1-215-487-00	s	RES, METAL	560k	1% 1/6W
1-215-488-00	s	RES, METAL	620k	1% 1/6W
1-215-489-00	s	RES, METAL	680k	1% 1/6W
1-215-490-00	s	RES, METAL	750k	1% 1/6W
1-215-491-00	s	RES, METAL	820k	1% 1/6W
1-215-492-00	s	RES, METAL	910k	1% 1/6W
1-215-493-00	s	RES, METAL	1.0M	1% 1/6W

AC-96, AFM-1

Ref.No. Parts No. SP Description

AC-96 BOARD

1-628-132-11 o PRINTED CIRCUIT BOARD, AC-96

AC1	1-136-185-00	s	FILM	0.22	20%	250V
C2	1-161-742-00	s	CERAMIC	0.0022	20%	400V
C3	1-161-742-00	s	CERAMIC	0.0022	20%	400V
C4	1-161-742-00	s	CERAMIC	0.0022	20%	400V

ACN420	1-564-241-00	o	4P
	1-562-285-11	o	4P HOUSING
	1-562-210-11	o	4P CONTACT
CN421	1-564-674-11	o	8P
	1-562-640-11	o	8P HOUSING
	1-562-210-11	o	8P CONTACT

R1 1-214-937-00 s CARBON 1M 5% 1/2W

AFM-1 BOARD

This board includes the FL-61 board.

A-6713-270-A o MOUNTED CIRCUIT BOARD, AFM-1

C2	1-163-033-00	s	CERAMIC	0.022		50V
C4	1-163-033-00	s	CERAMIC	0.022		50V
C9	1-163-033-00	s	CERAMIC	0.022		50V
C15	1-124-463-00	s	ELECT	0.1	20%	50V
C17	1-163-033-00	s	CERAMIC	0.022		50V
C18	1-124-257-00	s	ELECT	2.2	20%	50V
C21	1-163-033-00	s	CERAMIC	0.022		50V
C27	1-124-463-00	s	ELECT	0.1	20%	50V
C29	1-163-033-00	s	CERAMIC	0.022		50V
C30	1-124-257-00	s	ELECT	2.2	20%	50V
C33	1-163-033-00	s	CERAMIC	0.022		50V
C34	1-163-033-00	s	CERAMIC	0.022		50V
C103	1-163-033-00	s	CERAMIC	0.022		50V
C108	1-124-462-00	s	ELECT	10	20%	16V
C113	1-123-369-00	s	ELECT	4.7	20%	25V
C114	1-163-033-00	s	CERAMIC	0.022		50V
C115	1-163-135-00	s	CERAMIC	560pF	5%	50V
C116	1-124-499-11	s	ELECT	1	20%	50V
C118	1-124-224-00	s	ELECT	47	20%	6.3V
C119	1-163-033-00	s	CERAMIC	0.022		50V
C125	1-124-462-00	s	ELECT	10	20%	16V
C130	1-123-369-00	s	ELECT	4.7	20%	25V
C131	1-163-135-00	s	CERAMIC	560pF	5%	50V
C132	1-124-499-11	s	ELECT	1	20%	50V
C134	1-124-224-00	s	ELECT	47	20%	6.3V
C136	1-163-033-00	s	CERAMIC	0.022		50V
C137	1-124-638-11	s	ELECT	22	20%	10V
C141	1-163-033-00	s	CERAMIC	0.022		50V
C144	1-124-224-00	s	ELECT	47	20%	6.3V
C203	1-163-033-00	s	CERAMIC	0.022		50V

Ref.No. Parts No. SP Description

C208	1-124-462-00	s	ELECT	10	20%	16V
C213	1-123-369-00	s	ELECT	4.7	20%	25V
C214	1-163-033-00	s	CERAMIC	0.022		50V
C215	1-163-135-00	s	CERAMIC	560pF	5%	50V
C216	1-124-499-11	s	ELECT	1	20%	50V
C218	1-124-224-00	s	ELECT	47	20%	6.3V
C219	1-163-033-00	s	CERAMIC	0.022		50V
C225	1-124-462-00	s	ELECT	10	20%	16V
C230	1-123-369-00	s	ELECT	4.7	20%	25V
C231	1-163-135-00	s	CERAMIC	560pF	5%	50V
C232	1-124-499-11	s	ELECT	1	20%	50V
C234	1-124-224-00	s	ELECT	47	20%	6.3V
C235	1-124-638-11	s	ELECT	22	20%	10V
C237	1-163-033-00	s	CERAMIC	0.022		50V
C244	1-124-224-00	s	ELECT	47	20%	6.3V
C302	1-163-033-00	s	CERAMIC	0.022		50V
C304	1-163-033-00	s	CERAMIC	0.022		50V
C305	1-124-638-11	s	ELECT	22	20%	10V
C311	1-163-033-00	s	CERAMIC	0.022		50V
C313	1-163-033-00	s	CERAMIC	0.022		50V
C316	1-124-638-11	s	ELECT	22	20%	10V
C323	1-124-638-11	s	ELECT	22	20%	10V
C326	1-163-133-00	s	CERAMIC	470pF	5%	50V
C402	1-163-033-00	s	CERAMIC	0.022		50V
C404	1-163-033-00	s	CERAMIC	0.022		50V
C405	1-124-638-11	s	ELECT	22	20%	10V
C411	1-163-033-00	s	CERAMIC	0.022		50V
C413	1-163-033-00	s	CERAMIC	0.022		50V
C416	1-124-638-11	s	ELECT	22	20%	10V
C423	1-124-638-11	s	ELECT	22	20%	10V
C426	1-163-133-00	s	CERAMIC	470pF	5%	50V
C513	1-124-462-00	s	ELECT	10	20%	16V
C515	1-163-033-00	s	CERAMIC	0.022		50V
C529	1-124-462-00	s	ELECT	10	20%	16V
C602	1-163-033-00	s	CERAMIC	0.022		50V
C604	1-163-033-00	s	CERAMIC	0.022		50V
C701	1-126-103-11	s	ELECT	470	20%	16V
C702	1-163-033-00	s	CERAMIC	0.022	10%	25V
C706	1-126-103-11	s	ELECT	470	20%	16V
C707	1-163-037-11	s	CERAMIC	0.022	10%	25V
C708	1-126-103-11	s	ELECT	470	20%	16V
C709	1-163-033-00	s	CERAMIC	0.022		50V
C713	1-126-103-11	s	ELECT	470	20%	16V
C714	1-163-037-11	s	CERAMIC	0.022	10%	25V
C725	1-163-033-00	s	CERAMIC	0.022		50V
C728	1-163-033-00	s	CERAMIC	0.022		50V
C729	1-163-033-00	s	CERAMIC	0.022		50V
C901	1-124-257-00	s	ELECT	2.2	20%	50V
C902	1-124-638-11	s	ELECT	22	20%	10V
C903	1-124-638-11	s	ELECT	22	20%	10V
C904	1-124-638-11	s	ELECT	22	20%	10V
C905	1-124-638-11	s	ELECT	22	20%	10V
C907	1-102-106-00	s	CERAMIC	100pF	10%	50V
C908	1-102-106-00	s	CERAMIC	100pF	10%	50V

CN202 1-506-748-11 s DIN 96P

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

D101 8-719-101-23 s 1SS123
 D102 8-719-101-23 s 1SS123
 D201 8-719-101-23 s 1SS123
 D202 8-719-101-23 s 1SS123
 D301 8-719-914-11 s HZ4ALL

D302 8-719-914-11 s HZ4ALL
 D401 8-719-914-11 s HZ4ALL
 D402 8-719-914-11 s HZ4ALL
 D501 8-719-933-36 s HZ6A1L
 D502 8-719-933-36 s HZ6A1L

D901 8-719-100-03 s 1S2835
 D902 8-719-100-03 s 1S2835

FL1 1-236-590-11 s LOW-PASS 1.0MHz
 FL2 1-236-590-11 s LOW-PASS 1.0MHz
 FL3 1-236-012-11 s BANDPASS 310kHz
 FL4 1-236-013-11 s BANDPASS 540kHz
 FL5 1-236-013-11 s BANDPASS 540kHz

FL6 1-236-012-11 s BANDPASS 310kHz
 FL7 1-236-012-11 s BANDPASS 310kHz
 FL8 1-236-013-11 s BANDPASS 540kHz
 FL9 1-236-003-11 s LOW-PASS

IC1 8-759-403-78 s AN3920K (MATSUSHITA)
 IC2 8-759-403-78 s AN3920K (MATSUSHITA)
 IC101 8-759-403-77 s AN3922NK (MATSUSHITA)
 IC102 8-759-403-77 s AN3922NK (MATSUSHITA)
 IC103 8-759-208-11 s TC4053BFHB (TOSHIBA)

IC104 8-759-700-84 s NJM2041M-D (JRC)
 IC201 8-759-403-77 s AN3922NK (MATSUSHITA)
 IC202 8-759-403-77 s AN3922NK (MATSUSHITA)
 IC301 8-759-700-84 s NJM2041M-D (JRC)
 IC303 8-759-700-84 s NJM2041M-D (JRC)

IC304 8-759-700-94 s NJM5532M (JRC)
 IC401 8-759-700-84 s NJM2041M-D (JRC)
 IC403 8-759-700-84 s NJM2041M-D (JRC)
 IC404 8-759-700-94 s NJM5532M (JRC)
 IC501 8-752-009-90 s CX20099 (SONY)

IC502 8-759-700-84 s NJM2041M-D (JRC)
 IC701 8-759-200-68 s TC4011BF (TOSHIBA)
 IC702 8-759-207-74 s TC4030BFHB (TOSHIBA)
 IC703 8-759-205-78 s TC504013BF (TOSHIBA)
 IC704 8-759-200-90 s TC4538BF (TOSHIBA)

IC705 8-759-200-90 s TC4538BF (TOSHIBA)
 IC706 8-759-200-67 s TC4001BF (TOSHIBA)
 IC707 8-759-200-68 s TC4011BF (TOSHIBA)
 IC708 8-759-278-06 s TA78L006AP (TOSHIBA)
 IC710 8-759-982-05 s RC7805FA (RAYTHEON)

L1 1-410-482-31 s MICRO 100
 L2 1-410-482-31 s MICRO 100
 L3 1-410-482-31 s MICRO 100
 L4 1-410-482-31 s MICRO 100
 L101 1-410-482-31 s MICRO 100

L102 1-410-064-11 s MICRO 2.7MMH
 L103 1-410-064-11 s MICRO 2.7MMH
 L104 1-410-482-31 s MICRO 100
 L201 1-410-482-31 s MICRO 100
 L202 1-410-064-11 s MICRO 2.7MMH

Ref.No. Parts No. SP Description

L203 1-410-064-11 s MICRO 2.7MMH
 L601 1-410-482-31 s MICRO 100
 L602 1-410-482-31 s MICRO 100
 L701 1-459-155-00 s 45 (WITH CORE)
 L702 1-459-155-00 s 45 (WITH CORE)

Q1 8-729-100-66 s 2SC1623
 Q2 8-729-100-66 s 2SC1623
 Q3 8-729-100-66 s 2SC1623
 Q4 8-729-100-66 s 2SC1623
 Q5 8-729-901-03 s DTC144WK

Q6 8-729-901-03 s DTC144WK
 Q101 8-729-901-03 s DTC144WK
 Q201 8-729-901-03 s DTC144WK
 Q301 8-766-001-49 s TX429M
 Q302 8-766-001-49 s TX429M

Q303 8-766-001-49 s TX429M
 Q304 8-766-001-49 s TX429M
 Q401 8-766-001-49 s TX429M
 Q402 8-766-001-49 s TX429M
 Q403 8-766-001-49 s TX429M

Q404 8-766-001-49 s TX429M
 Q601 8-729-100-66 s 2SC1623
 Q602 8-729-100-66 s 2SC1623
 Q603 8-729-100-66 s 2SC1623
 Q604 8-729-100-66 s 2SC1623

Q605 8-729-901-03 s DTC144WK
 Q606 8-729-100-66 s 2SC1623
 Q607 8-729-100-66 s 2SC1623
 Q608 8-729-100-66 s 2SC1623
 Q701 8-729-177-33 s 2SD773-4

Q702 8-729-113-33 s 2SB733-4
 Q703 8-729-901-05 s DTA124EK
 Q704 8-729-901-05 s DTA124EK
 Q705 8-729-901-05 s DTA124EK
 Q706 8-729-901-05 s DTA124EK

Q707 8-729-901-05 s DTA124EK
 Q901 8-729-271-22 s 2SC2712G
 G902 8-729-100-66 s 2SC1623
 Q903 8-729-202-38 s 2SC3326N
 Q904 8-729-202-38 s 2SC3326N

R3 1-216-649-11 s METAL CHIP 820 0.50% 1/10W
 R4 1-216-641-11 s METAL CHIP 390 0.50% 1/10W
 R8 1-216-649-11 s METAL CHIP 820 0.50% 1/10W
 R9 1-216-641-11 s METAL CHIP 390 0.50% 1/10W
 R12 1-216-679-11 s METAL CHIP 15k 0.50% 1/10W

R13 1-216-685-11 s METAL CHIP 27k 0.50% 1/10W
 R15 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W
 R16 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W
 R17 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W
 R18 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W

R20 1-216-679-11 s METAL CHIP 15k 0.50% 1/10W
 R21 1-216-685-11 s METAL CHIP 27k 0.50% 1/10W
 R23 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W
 R24 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W
 R25 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
R26	1-216-657-11	s	METAL CHIP 1.8k 0.50% 1/10W
R101	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R103	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R108	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R110	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R115	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R116	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R120	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R121	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R130	1-216-644-11	s	METAL CHIP 510 0.50% 1/10W
R131	1-216-644-11	s	METAL CHIP 510 0.50% 1/10W
R201	1-216-670-11	s	METAL CHIP 6.2k 0.50% 1/10W
R203	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R208	1-216-670-11	s	METAL CHIP 6.2k 0.50% 1/10W
R210	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R215	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R216	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R220	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R221	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R314	1-216-666-11	s	METAL CHIP 4.3k 0.50% 1/10W
R323	1-216-664-11	s	METAL CHIP 3.6k 0.50% 1/10W
R324	1-216-671-11	s	METAL CHIP 6.8k 0.50% 1/10W
R327	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R328	1-216-671-11	s	METAL CHIP 6.8k 0.50% 1/10W
R350	1-216-624-11	s	METAL CHIP 75 0.50% 1/10W
R414	1-216-666-11	s	METAL CHIP 4.3k 0.50% 1/10W
R423	1-216-664-11	s	METAL CHIP 3.6k 0.50% 1/10W
R424	1-216-671-11	s	METAL CHIP 6.8k 0.50% 1/10W
R427	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R428	1-216-671-11	s	METAL CHIP 6.8k 0.50% 1/10W
R450	1-216-624-11	s	METAL CHIP 75 0.50% 1/10W
R501	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R504	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W
R505	1-216-647-11	s	METAL CHIP 680 0.50% 1/10W
R506	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R508	1-216-665-11	s	METAL CHIP 3.9k 0.50% 1/10W
R509	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W
R511	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R512	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W
R513	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R515	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R519	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W
R520	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R521	1-216-647-11	s	METAL CHIP 680 0.50% 1/10W
R522	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W
R523	1-216-665-11	s	METAL CHIP 3.9k 0.50% 1/10W
R524	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W
R525	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R526	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R527	1-216-669-11	s	METAL CHIP 5.6k 0.50% 1/10W
R528	1-216-198-00	s	CHIP 1k 5% 1/8W
R529	1-216-198-00	s	CHIP 1k 5% 1/8W
R530	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W
R531	1-216-668-11	s	METAL CHIP 5.1k 0.50% 1/10W
R532	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W
R533	1-216-668-11	s	METAL CHIP 5.1k 0.50% 1/10W
R603	1-216-657-11	s	METAL CHIP 1.8k 0.50% 1/10W
R604	1-216-657-11	s	METAL CHIP 1.8k 0.50% 1/10W
R606	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R607	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R617	1-216-657-11	s	METAL CHIP 1.8k 0.50% 1/10W

Ref.No.	Parts No.	SP	Description
R618	1-216-657-11	s	METAL CHIP 1.8k 0.50% 1/10W
R621	1-247-767-00	s	CARBON 2.2 5% 1/4W
R707	1-216-692-11	s	METAL CHIP 51k 0.50% 1/10W
R708	1-216-692-11	s	METAL CHIP 51k 0.50% 1/10W
R709	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R718	1-216-682-11	s	METAL CHIP 20k 0.50% 1/10W
R719	1-216-682-11	s	METAL CHIP 20k 0.50% 1/10W
R721	1-216-682-11	s	METAL CHIP 20k 0.50% 1/10W
RV2	1-237-520-21	s	VAR, CERMET 50k
RV4	1-237-520-21	s	VAR, CERMET 50k
RV5	1-237-519-21	s	VAR, CERMET 20k
RV6	1-237-519-21	s	VAR, CERMET 20k
RV101	1-237-516-21	s	VAR, CERMET 2k
RV102	1-237-517-21	s	VAR, CERMET 5k
RV103	1-237-516-21	s	VAR, CERMET 2k
RV104	1-230-838-11	s	VAR, METAL FILM 200
RV105	1-237-519-21	s	VAR, CERMET 20k
RV201	1-237-516-21	s	VAR, CERMET 2k
RV202	1-237-517-21	s	VAR, CERMET 5k
RV203	1-237-516-21	s	VAR, CERMET 2k
RV204	1-230-838-11	s	VAR, METAL FILM 200
RV205	1-237-519-21	s	VAR, CERMET 20k
RV304	1-226-703-11	s	VAR, METAL GLAZE 10k
RV404	1-226-703-11	s	VAR, METAL GLAZE 10k
RV501	1-237-514-21	s	VAR, CERMET 500
RV502	1-237-514-21	s	VAR, CERMET 500
RV601	1-226-773-11	s	VAR, METAL GLAZE 22k
RV602	1-237-517-21	s	VAR, CERMET 5k
RV603	1-237-519-21	s	VAR, CERMET 20k
S1	1-570-857-11	s	SLIDE

AU-75 BOARD

A-6713-271-A o MOUNTED CIRCUIT BOARD, AU-75

C11	1-127-503-00	s	ELECT 0.33 25V
C12	1-127-503-00	s	ELECT 0.33 25V
C13	1-127-503-00	s	ELECT 0.33 25V
C14	1-127-503-00	s	ELECT 0.33 25V
C19	1-124-236-00	s	ELECT 47 20% 10V
C20	1-124-236-00	s	ELECT 47 20% 10V
C101	1-124-657-00	s	ELECT 10 20% 50V
C102	1-124-657-00	s	ELECT 10 20% 50V
C105	1-124-236-00	s	ELECT 47 20% 10V
C106	1-124-236-00	s	ELECT 47 20% 10V
C107	1-124-236-00	s	ELECT 47 20% 10V
C108	1-124-598-11	s	ELECT 22 20% 25V
C109	1-127-501-00	s	ELECT 0.15 25V
C110	1-124-236-00	s	ELECT 47 20% 10V
C112	1-124-236-00	s	ELECT 47 20% 10V
C114	1-124-462-00	s	ELECT 10 20% 16V
C115	1-124-462-00	s	ELECT 10 20% 16V
C122	1-124-462-00	s	ELECT 10 20% 16V
C123	1-124-462-00	s	ELECT 10 20% 16V
C124	1-124-236-00	s	ELECT 47 20% 10V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

C125	1-124-236-00	s	ELECT	47	20%	10V
C133	1-124-462-00	s	ELECT	10	20%	16V
C134	1-124-462-00	s	ELECT	10	20%	16V
C139	1-124-462-00	s	ELECT	10	20%	16V
C143	1-124-236-00	s	ELECT	47	20%	10V
C144	1-124-236-00	s	ELECT	47	20%	10V
C145	1-124-462-00	s	ELECT	10	20%	16V
C149	1-102-116-00	s	CERAMIC	680pF	10%	50V
C150	1-124-462-00	s	ELECT	10	20%	16V
C151	1-124-236-00	s	ELECT	47	20%	10V
C155	1-124-236-00	s	ELECT	47	20%	10V
C156	1-124-236-00	s	ELECT	47	20%	10V
C201	1-124-657-00	s	ELECT	10	20%	50V
C202	1-124-657-00	s	ELECT	10	20%	50V
C205	1-124-236-00	s	ELECT	47	20%	10V
C206	1-124-236-00	s	ELECT	47	20%	10V
C207	1-124-236-00	s	ELECT	47	20%	10V
C208	1-124-598-11	s	ELECT	22	20%	25V
C209	1-127-501-00	s	ELECT	0.15		25V
C210	1-124-236-00	s	ELECT	47	20%	10V
C212	1-124-236-00	s	ELECT	47	20%	10V
C214	1-124-462-00	s	ELECT	10	20%	16V
C215	1-124-462-00	s	ELECT	10	20%	16V
C222	1-124-462-00	s	ELECT	10	20%	16V
C223	1-124-462-00	s	ELECT	10	20%	16V
C224	1-124-236-00	s	ELECT	47	20%	10V
C225	1-124-236-00	s	ELECT	47	20%	10V
C233	1-124-462-00	s	ELECT	10	20%	16V
C234	1-124-462-00	s	ELECT	10	20%	16V
C239	1-124-462-00	s	ELECT	10	20%	16V
C243	1-124-236-00	s	ELECT	47	20%	10V
C244	1-124-236-00	s	ELECT	47	20%	10V
C245	1-124-462-00	s	ELECT	10	20%	16V
C249	1-102-116-00	s	CERAMIC	680pF	10%	50V
C250	1-124-462-00	s	ELECT	10	20%	16V
C251	1-124-236-00	s	ELECT	47	20%	10V
C255	1-124-236-00	s	ELECT	47	20%	10V
C256	1-124-236-00	s	ELECT	47	20%	10V
C302	1-124-462-00	s	ELECT	10	20%	16V
C304	1-124-462-00	s	ELECT	10	20%	16V
C408	1-124-462-00	s	ELECT	10	20%	16V
C409	1-124-462-00	s	ELECT	10	20%	16V
C508	1-124-462-00	s	ELECT	10	20%	16V
C509	1-124-462-00	s	ELECT	10	20%	16V

CN203 1-506-748-11 s DIN 96P

D101	8-719-100-03	s	1S2835
D102	8-719-100-03	s	1S2835
D103	8-719-100-03	s	1S2835
D104	8-719-100-03	s	1S2835
D105	8-719-100-03	s	1S2835

D106	8-719-100-03	s	1S2835
D201	8-719-100-03	s	1S2835
D202	8-719-100-03	s	1S2835
D203	8-719-100-03	s	1S2835
D204	8-719-100-03	s	1S2835

D205	8-719-100-03	s	1S2835
D206	8-719-100-03	s	1S2835
D301	8-719-100-03	s	1S2835

Ref.No. Parts No. SP Description

FL101	1-236-171-11	s	LOW-PASS 15kHz
FL201	1-236-171-11	s	LOW-PASS 15kHz

IC101	8-759-700-84	s	NJM2041M-D (JRC)
IC104	8-741-115-21	s	BX1152A (SONY)
IC105	8-759-745-64	s	NJM4560M (JRC)
IC106	8-759-745-64	s	NJM4560M (JRC)
IC107	8-759-745-64	s	NJM4560M (JRC)

IC108	8-759-200-68	s	TC4011BF (TOSHIBA)
IC109	8-759-700-94	s	NJM5532M (JRC)
IC110	8-759-700-84	s	NJM2041M-D (JRC)
IC111	8-759-700-84	s	NJM2041M-D (JRC)
IC112	8-741-134-32	s	BX1343A (SONY)

IC201	8-759-700-84	s	NJM2041M-D (JRC)
IC204	8-741-115-21	s	BX1152A (SONY)
IC205	8-759-745-64	s	NJM4560M (JRC)
IC206	8-759-745-64	s	NJM4560M (JRC)
IC207	8-759-745-64	s	NJM4560M (JRC)

IC208	8-759-200-68	s	TC4011BF (TOSHIBA)
IC209	8-759-700-94	s	NJM5532M (JRC)
IC210	8-759-700-84	s	NJM2041M-D (JRC)
IC211	8-759-700-84	s	NJM2041M-D (JRC)
IC212	8-741-134-32	s	BX1343A (SONY)

IC301	8-759-700-84	s	NJM2041M-D (JRC)
IC302	8-759-200-68	s	TC4081BF (TOSHIBA)
IC401	8-759-745-64	s	NJM4560M (JRC)
IC501	8-759-745-64	s	NJM4560M (JRC)

L1 1-412-533-11 s MICRO 47

LV101	1-459-434-00	s	VAR 22MMH
LV102	1-459-411-00	s	VAR 18MMH
LV103	1-459-411-00	s	VAR 18MMH
LV201	1-459-434-00	s	VAR 22MMH
LV202	1-459-411-00	s	VAR 18MMH

LV203	1-459-411-00	s	VAR 18MMH
LV401	1-407-297-00	s	VAR 3.5MMH
LV501	1-407-297-00	s	VAR 3.5MMH

Q1	8-729-905-53	s	2SD1055-R
Q2	8-729-982-23	s	2SB822
Q3	8-759-708-05	s	NJM78105A (JRC)
Q4	8-759-700-65	s	NJM79105A (JRC)
Q101	8-766-001-49	s	TX429M

Q102	8-729-202-38	s	28C3326N
Q103	8-729-202-38	s	28C3326N
Q104	8-766-001-49	s	TX429M
Q105	8-729-271-23	s	28C2712
Q106	8-729-271-23	s	28C2712

Q107	8-729-178-55	s	28C2785-E
Q108	8-729-178-55	s	28C2785-E
Q109	8-729-901-06	s	DTA144EK
Q110	8-729-901-06	s	DTA144EK
Q111	8-729-216-21	s	2SA1162Y

Q112	8-729-216-21	s	2SA1162Y
Q113	8-729-901-06	s	DTA144EK
Q114	8-729-901-01	s	DTC144EK
Q115	8-729-901-06	s	DTA144EK
Q116	8-729-901-01	s	DTC144EK

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

Q201 8-766-001-49 s TX429M
Q202 8-729-202-38 s 2SC3326N
Q203 8-729-202-38 s 2SC3326N
Q204 8-766-001-49 s TX429M
Q205 8-729-271-23 s 2SC2712

Q206 8-729-271-23 s 2SC2712
Q207 8-729-178-55 s 2SC2785-E
Q208 8-729-178-55 s 2SC2785-E
Q209 8-729-901-06 s DTA144EK
Q210 8-729-901-06 s DTA144EK

Q211 8-729-216-21 s 2SA1162Y
Q212 8-729-216-21 s 2SA1162Y
Q213 8-729-901-06 s DTA144EK
Q214 8-729-901-01 s DTC144EK
Q215 8-729-901-06 s DTA144EK

Q216 8-729-901-01 s DTC144EK
Q301 8-729-202-38 s 2SC3326N
Q302 8-729-901-06 s DTA144EK
Q303 8-729-901-01 s DTC144EK
Q304 8-729-901-06 s DTA144EK

Q305 8-729-901-06 s DTA144EK

R1 1-247-745-11 s CARBON 330 5% 1/2W
R2 1-247-745-11 s CARBON 330 5% 1/2W
R140 1-216-748-11 s METAL CHIP 39k 5% 1/10W
R152 1-216-748-11 s METAL CHIP 39k 5% 1/10W
R170 1-216-660-11 s METAL CHIP 2.4k 0.50% 1/10W

R171 1-216-698-11 s METAL CHIP 91k 0.50% 1/10W
R189 1-216-681-11 s METAL CHIP 18k 0.50% 1/10W
R191 1-216-681-11 s METAL CHIP 18k 0.50% 1/10W
R240 1-216-748-11 s METAL CHIP 39k 5% 1/10W
R252 1-216-748-11 s METAL CHIP 39k 5% 1/10W

R270 1-216-660-11 s METAL CHIP 2.4k 0.50% 1/10W
R271 1-216-698-11 s METAL CHIP 91k 0.50% 1/10W
R289 1-216-681-11 s METAL CHIP 18k 0.50% 1/10W
R291 1-216-681-11 s METAL CHIP 18k 0.50% 1/10W
R829 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W

R834 1-216-685-11 s METAL CHIP 27k 0.50% 1/10W
R837 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
R844 1-216-692-11 s METAL CHIP 5k 0.50% 1/10W

RV101 1-237-503-21 s VAR, CERMET 10k
RV102 1-237-504-21 s VAR, CERMET 20k
RV103 1-237-517-21 s VAR, CERMET 5k
RV104 1-237-503-21 s VAR, CERMET 10k
RV105 1-237-504-21 s VAR, CERMET 20k

RV106 1-237-517-21 s VAR, CERMET 5k
RV107 1-237-520-21 s VAR, CERMET 50k
RV108 1-237-518-21 s VAR, CERMET 10k
RV110 1-237-518-21 s VAR, CERMET 10k
RV201 1-237-503-21 s VAR, CERMET 10k

RV202 1-237-504-21 s VAR, CERMET 20k
RV203 1-237-517-21 s VAR, CERMET 5k
RV204 1-237-503-21 s VAR, CERMET 10k
RV205 1-237-504-21 s VAR, CERMET 20k
RV206 1-237-517-21 s VAR, CERMET 5k

RV207 1-237-520-21 s VAR, CERMET 50k
RV208 1-237-518-21 s VAR, CERMET 10k
RV210 1-237-518-21 s VAR, CERMET 10k
RV211 1-228-464-00 s VAR, CERMET 500k
RV401 1-237-518-21 s VAR, CERMET 10k

Ref.No. Parts No. SP Description

RV402 1-237-518-21 s VAR, CERMET 10k
RV403 1-237-518-21 s VAR, CERMET 10k
3) RV404 1-237-517-21 s VAR, CERMET 5k
4) RV404 1-228-462-00 s VAR, CERMET 100k
RV405 1-237-515-21 s VAR, CERMET 1k

4) RV406 1-228-462-00 s VAR, CERMET 100k
RV501 1-237-518-21 s VAR, CERMET 10k
RV502 1-237-518-21 s VAR, CERMET 10k
RV503 1-237-518-21 s VAR, CERMET 10k
3) RV504 1-237-517-21 s VAR, CERMET 5k

4) RV504 1-228-462-00 s VAR, CERMET 100k
RV505 1-237-515-21 s VAR, CERMET 1k
4) RV506 1-228-462-00 s VAR, CERMET 100k

AU-76 BOARD

A-6713-272-A o MOUNTED CIRCUIT BOARD, AU-76

C1 1-126-103-11 s ELECT 470 20% 16V
C2 1-126-103-11 s ELECT 470 20% 16V
C5 1-126-103-11 s ELECT 470 20% 16V
C6 1-126-103-11 s ELECT 470 20% 16V
C7 1-127-503-00 s ELECT 0.33 25V

C8 1-127-503-00 s ELECT 0.33 25V
C9 1-127-503-00 s ELECT 0.33 25V
C10 1-127-503-00 s ELECT 0.33 25V
C23 1-124-236-00 s ELECT 47 20% 10V
C24 1-124-236-00 s ELECT 47 20% 10V

C109 1-124-236-00 s ELECT 47 20% 10V
C110 1-124-236-00 s ELECT 47 20% 10V
C111 1-124-462-00 s ELECT 10 20% 16V
C112 1-124-598-11 s ELECT 22 20% 25V
C113 1-124-462-00 s ELECT 10 20% 16V

C117 1-124-462-00 s ELECT 10 20% 16V
C119 1-124-236-00 s ELECT 47 20% 10V
C120 1-124-236-00 s ELECT 47 20% 10V
C124 1-124-236-00 s ELECT 47 20% 10V
C128 1-124-462-00 s ELECT 10 20% 16V

C129 1-124-236-00 s ELECT 47 20% 10V
C134 1-124-462-00 s ELECT 10 20% 16V
C136 1-109-631-00 s MICA 330pF 5% 500V
C151 1-124-462-00 s ELECT 10 20% 16V
C155 1-124-234-00 s ELECT 22 20% 16V

C157 1-124-234-00 s ELECT 22 20% 16V
C158 1-126-157-11 s ELECT 10 20% 16V
C167 1-123-055-00 s ELECT 47 20% 16V
C168 1-162-900-11 s CERAMIC 0.068 50V
C209 1-124-236-00 s ELECT 47 20% 10V

C210 1-124-236-00 s ELECT 47 20% 10V
C211 1-124-462-00 s ELECT 10 20% 16V
C212 1-124-598-11 s ELECT 22 20% 25V
C213 1-124-462-00 s ELECT 10 20% 16V
C217 1-124-462-00 s ELECT 10 20% 16V

C219 1-124-236-00 s ELECT 47 20% 10V
C220 1-124-236-00 s ELECT 47 20% 10V
C224 1-124-236-00 s ELECT 47 20% 10V
C228 1-124-462-00 s ELECT 10 20% 16V
C229 1-124-236-00 s ELECT 47 20% 10V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

C234 1-124-462-00 s ELECT 10 20% 16V
 C236 1-109-631-00 s MICA 330pF 5% 500V
 C251 1-124-462-00 s ELECT 10 20% 16V
 C255 1-124-234-00 s ELECT 22 20% 16V
 C257 1-124-234-00 s ELECT 22 20% 16V

C258 1-126-157-11 s ELECT 10 20% 16V
 C267 1-123-055-00 s ELECT 47 20% 16V
 C268 1-162-900-11 s CERAMIC 0.068 50V
 C309 1-124-236-00 s ELECT 47 20% 10V
 C310 1-124-236-00 s ELECT 47 20% 10V

C311 1-124-589-11 s ELECT 47 20% 10V
 C312 1-124-589-11 s ELECT 47 20% 10V
 C502 1-124-236-00 s ELECT 47 20% 10V
 C509 1-124-236-00 s ELECT 47 20% 10V
 C512 1-109-631-00 s MICA 330pF 5% 500V

C513 1-109-630-00 s MICA 270pF 5% 500V
 C515 1-109-631-00 s MICA 330pF 5% 500V
 C602 1-124-236-00 s ELECT 47 20% 10V
 C609 1-124-236-00 s ELECT 47 20% 10V
 C612 1-109-631-00 s MICA 330pF 5% 500V

C613 1-109-630-00 s MICA 270pF 5% 500V
 C615 1-109-631-00 s MICA 330pF 5% 500V
 C812 1-162-889-11 s CERAMIC 680pF 5% 50V
 C822 1-162-889-11 s CERAMIC 680pF 5% 50V

CN204 1-506-748-11 s DIN 96P

D1 8-719-200-02 s 10E2
 D2 8-719-200-02 s 10E2
 D3 8-719-100-03 s 1S2835
 D101 8-719-100-05 s 1S2837
 D102 8-719-100-05 s 1S2837

D103 8-719-105-28 s RD2.4M-B
 D104 8-719-106-89 s RD15M-B2
 D105 8-719-106-89 s RD15M-B2
 D106 8-719-100-03 s 1S2835
 D201 8-719-100-05 s 1S2837

D202 8-719-100-05 s 1S2837
 D203 8-719-105-28 s RD2.4M-B
 D204 8-719-106-89 s RD15M-B2
 D205 8-719-106-89 s RD15M-B2
 D206 8-719-100-03 s 1S2835

D301 8-719-100-05 s 1S2837
 D302 8-719-100-05 s 1S2837
 D303 8-719-100-05 s 1S2837
 D501 8-719-100-05 s 1S2837
 D502 8-719-100-05 s 1S2837

D503 8-719-100-05 s 1S2837
 D601 8-719-100-05 s 1S2837
 D602 8-719-100-05 s 1S2837
 D603 8-719-100-05 s 1S2837

FL101 1-236-171-11 s LOW-PASS 15kHz

IC1 8-759-708-05 s NJM78L05A (JRC)
 IC2 8-759-700-65 s NJM79L05A (JRC)
 IC101 8-759-700-09 s NJM2043M-D (JRC)
 IC103 8-741-115-20 s BX1152 (SONY)
 8-741-148-90 s SBX1489-01 (SONY)

Ref.No. Parts No. SP Description

IC104 8-759-982-04 s RC5532M (RAYTHEON)
 IC106 8-759-700-09 s NJM2043M-D (JRC)
 IC107 8-759-700-84 s NJM2041M-D (JRC)
 IC201 8-759-700-09 s NJM2043M-D (JRC)
 IC203 8-741-115-20 s BX1152 (SONY)

IC204 8-759-982-04 s RC5532M (RAYTHEON)
 IC206 8-759-700-09 s NJM2043M-D (JRC)
 IC207 8-759-700-84 s NJM2041M-D (JRC)
 IC301 8-759-200-68 s TC4011BF (TOSHIBA)
 IC302 8-759-200-67 s TC4001BF (TOSHIBA)

IC303 8-759-982-04 s RC5532M (RAYTHEON)
 IC304 8-759-982-04 s RC5532M (RAYTHEON)
 IC801 8-759-759-84 s NJM2041M-D (JRC)
 IC811 8-759-759-84 s NJM2041M-D (JRC)
 IC812 8-759-759-84 s NJM2041M-D (JRC)

IC821 8-759-759-84 s NJM2041M-D (JRC)
 IC822 8-759-759-84 s NJM2041M-D (JRC)

L3 1-412-533-11 s MICRO 47
 L501 1-412-533-11 s MICRO 47
 L601 1-412-533-11 s MICRO 47

LV101 1-459-434-00 s VAR 22MMH
 LV102 1-407-299-11 s VAR 5.6MMH
 LV103 1-407-298-00 s VAR 4.5MMH
 LV104 1-407-299-11 s VAR 5.6MMH
 LV201 1-459-434-00 s VAR 22MMH

LV202 1-407-299-11 s VAR 5.6MMH
 LV203 1-407-298-00 s VAR 4.5MMH
 LV204 1-407-299-11 s VAR 5.6MMH

Q1 8-729-216-21 s 2SA1162Y
 Q2 8-729-901-01 s DTC144EK
 Q3 8-729-905-53 s 2SD1055-R
 Q4 8-729-982-23 s 2SB822
 Q101 8-766-001-49 s TX429M

Q102 8-766-001-49 s TX429M
 Q103 8-766-001-49 s TX429M
 Q104 8-729-202-38 s 2SC3326N
 Q105 8-729-216-21 s 2SA1162Y
 Q106 8-729-216-21 s 2SA1162Y

Q107 8-729-202-38 s 2SC3326N
 Q108 8-729-901-06 s DTA144EK
 Q110 8-729-202-38 s 2SC3326N
 Q111 8-729-216-21 s 2SA1162Y
 Q112 8-729-109-42 s 2SK94-X2

Q113 8-729-271-23 s 2SC2712
 Q115 8-729-202-38 s 2SC3326N
 Q116 8-729-202-38 s 2SC3326N
 Q117 8-729-202-38 s 2SC3326N
 Q118 8-729-901-06 s DTA144EK

Q119 8-729-901-01 s DTC144EK
 Q120 8-729-901-06 s DTA144EK
 Q121 8-729-901-01 s DTC144EK
 Q122 8-729-901-06 s DTA144EK
 Q123 8-729-901-01 s DTC144EK

Q124 8-729-271-23 s 2SC2712
 Q125 8-729-804-09 s 2SA1319-T
 Q126 8-729-803-89 s 2SC3332-T
 Q127 8-729-803-89 s 2SC3332-T
 Q201 8-766-001-49 s TX429M

Parts that are not listed in the "reference number order list"
 are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

Q202 8-766-001-49 s TX429M
 Q203 8-766-001-49 s TX429M
 Q204 8-729-202-38 s 2SC3326N
 Q205 8-729-216-21 s 2SA1162Y
 Q206 8-729-216-21 s 2SA1162Y

Q207 8-729-202-38 s 2SC3326N
 Q208 8-729-901-06 s DTA144EK
 Q210 8-729-202-38 s 2SC3326N
 Q211 8-729-216-21 s 2SA1162Y
 Q212 8-729-109-42 s 2SK94-X2

Q213 8-729-271-23 s 2SC2712
 Q215 8-729-202-38 s 2SC3326N
 Q216 8-729-202-38 s 2SC3326N
 Q217 8-729-202-38 s 2SC3326N
 Q218 8-729-901-06 s DTA144EK

Q219 8-729-901-01 s DTC144EK
 Q220 8-729-901-06 s DTA144EK
 Q221 8-729-901-01 s DTC144EK
 Q222 8-729-901-06 s DTA144EK
 Q223 8-729-901-01 s DTC144EK

Q224 8-729-271-23 s 2SC2712
 Q225 8-729-804-09 s 2SA1319-T
 Q226 8-729-803-89 s 2SC3332-T
 Q227 8-729-803-89 s 2SC3332-T
 Q301 8-729-901-06 s DTA144EK

Q302 8-729-901-01 s DTC144EK
 Q303 8-729-901-06 s DTA144EK
 Q304 8-729-901-01 s DTC144EK
 Q305 8-729-901-06 s DTA144EK
 Q306 8-729-901-01 s DTC144EK

Q307 8-729-901-06 s DTA144EK
 Q308 8-729-901-01 s DTC144EK
 Q309 8-729-901-06 s DTA144EK
 Q310 8-729-901-06 s DTA144EK
 Q311 8-729-901-06 s DTA144EK

Q313 8-729-271-23 s 2SC2712
 Q314 8-729-271-23 s 2SC2712
 Q315 8-729-102-08 s 2SC2223-F14
 Q316 8-729-901-06 s DTA144EK
 Q317 8-729-901-01 s DTC144EK

Q501 8-729-304-92 s 2SB649A
 Q502 8-729-271-23 s 2SC2712
 Q503 8-729-901-01 s DTC144EK
 Q504 8-729-901-06 s DTA144EK
 Q505 8-729-901-01 s DTC144EK

Q506 8-729-901-01 s DTC144EK
 Q507 8-729-905-53 s 2SD1055-R
 Q508 8-729-905-53 s 2SD1055-R
 Q509 8-729-905-53 s 2SD1055-R
 Q510 8-729-905-53 s 2SD1055-R

Q511 8-729-600-27 s 2SC6438P
 Q601 8-729-304-92 s 2SB649A
 Q602 8-729-271-23 s 2SC2712
 Q603 8-729-901-01 s DTC144EK
 Q604 8-729-901-06 s DTA144EK

Q605 8-729-901-01 s DTC144EK
 Q606 8-729-901-01 s DTC144EK
 Q607 8-729-905-53 s 2SD1055-R
 Q608 8-729-905-53 s 2SD1055-R
 Q609 8-729-905-53 s 2SD1055-R

Q610 8-729-905-53 s 2SD1055-R
 Q611 8-729-600-27 s 2SC6438P

Ref.No. Parts No. SP Description

R101 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R102 1-216-633-11 s METAL CHIP 180 0.50% 1/10W
 R105 1-216-699-11 s METAL CHIP 100k 0.50% 1/10W
 R159 1-216-603-11 s METAL CHIP 10 0.50% 1/10W
 R166 1-216-699-11 s METAL CHIP 100k 0.50% 1/10W

R167 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R168 1-216-633-11 s METAL CHIP 180 0.50% 1/10W
 R173 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R188 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R189 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W

R190 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R195 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R196 1-216-668-11 s METAL CHIP 5.1k 0.50% 1/10W
 R197 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R198 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W

R201 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R202 1-216-633-11 s METAL CHIP 180 0.50% 1/10W
 R205 1-216-699-11 s METAL CHIP 100k 0.50% 1/10W
 R259 1-216-603-11 s METAL CHIP 10 0.50% 1/10W
 R266 1-216-699-11 s METAL CHIP 100k 0.50% 1/10W

R267 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R268 1-216-633-11 s METAL CHIP 180 0.50% 1/10W
 R273 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R288 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R289 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W

R290 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R295 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R296 1-216-668-11 s METAL CHIP 5.1k 0.50% 1/10W
 R297 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R298 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W

R312 1-216-671-11 s METAL CHIP 6.8k 0.50% 1/10W
 R313 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
 R314 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
 R315 1-216-671-11 s METAL CHIP 6.8k 0.50% 1/10W
 R317 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W

R319 1-216-640-11 s METAL CHIP 360 0.50% 1/10W
 R320 1-216-695-11 s METAL CHIP 68k 0.50% 1/10W
 R513 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R514 1-214-816-00 s METAL FILM 10 1% 1/2W
 R516 1-216-650-11 s METAL CHIP 910 0.50% 1/10W

R524 1-214-816-00 s METAL FILM 10 1% 1/2W
 R613 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R614 1-214-816-00 s METAL FILM 10 1% 1/2W
 R616 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R624 1-214-816-00 s METAL FILM 10 1% 1/2W

R813 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W
 R814 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R817 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R819 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R823 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W

R824 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R827 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R829 1-216-693-11 s METAL CHIP 56k 0.50% 1/10W
 R832 1-216-681-11 s METAL CHIP 18k 0.50% 1/10W
 R834 1-216-681-11 s METAL CHIP 18k 0.50% 1/10W

R835 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
 R837 1-216-692-11 s METAL CHIP 51k 0.50% 1/10W
 R842 1-216-681-11 s METAL CHIP 18k 0.50% 1/10W
 R844 1-216-681-11 s METAL CHIP 18k 0.50% 1/10W
 R845 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W

R847 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
RV101	1-230-903-11	s	VAR, METAL FILM 200k
RV102	1-237-517-21	s	VAR, CERMET 5k
RV103	1-237-518-21	s	VAR, CERMET 10k
RV104	1-237-518-21	s	VAR, CERMET 10k
RV105	1-237-520-21	s	VAR, CERMET 50k
RV110	1-230-903-11	s	VAR, METAL FILM 200k
RV111	1-237-517-21	s	VAR, CERMET 5k
RV112	1-237-503-21	s	VAR, CERMET 10k
RV115	1-237-520-21	s	VAR, CERMET 50k
RV201	1-230-903-11	s	VAR, METAL FILM 200k
RV202	1-237-517-21	s	VAR, CERMET 5k
RV203	1-237-518-21	s	VAR, CERMET 10k
RV204	1-237-518-21	s	VAR, CERMET 10k
RV205	1-237-520-21	s	VAR, CERMET 50k
RV210	1-230-903-11	s	VAR, METAL FILM 200k
RV211	1-237-517-21	s	VAR, CERMET 5k
RV212	1-237-503-21	s	VAR, CERMET 10k
RV215	1-237-520-21	s	VAR, CERMET 50k
RV301	1-237-519-21	s	VAR, CERMET 20k
RV302	1-237-518-21	s	VAR, CERMET 10k
RV501	1-237-504-21	s	VAR, CERMET 20k
RV502	1-237-498-11	s	VAR, CERMET 200
RV601	1-237-504-21	s	VAR, CERMET 20k
RV602	1-237-498-11	s	VAR, CERMET 200
RV811	1-237-517-21	s	VAR, CERMET 5k
RV821	1-237-517-21	s	VAR, CERMET 5k

S101	1-570-598-11	o	DIP
S102	1-570-598-11	o	DIP
S201	1-570-598-11	o	DIP
S202	1-570-598-11	o	DIP
S301	1-552-509-00	s	DIP

T501	1-433-326-11	s	BIAS OSCILLATION
T601	1-433-326-11	s	BIAS OSCILLATION

BF-28 BOARD

A-6713-273-A o MOUNTED CIRCUIT BOARD, BF-28

C51	1-124-258-00	s	ELECT	3.3	20%	25V
C52	1-124-258-00	s	ELECT	3.3	20%	25V
C53	1-124-258-00	s	ELECT	3.3	20%	25V
C54	1-124-258-00	s	ELECT	3.3	20%	25V
G101	1-124-236-00	s	ELECT	47	20%	10V
G102	1-124-236-00	s	ELECT	47	20%	10V
G201	1-124-236-00	s	ELECT	47	20%	10V
G202	1-124-236-00	s	ELECT	47	20%	10V
C301	1-124-236-00	s	ELECT	47	20%	10V
C302	1-124-236-00	s	ELECT	47	20%	10V
C401	1-124-236-00	s	ELECT	47	20%	10V
C402	1-124-236-00	s	ELECT	47	20%	10V
C501	1-124-462-00	s	ELECT	10	20%	16V
C502	1-124-257-00	s	ELECT	2.2		50V
C503	1-124-257-00	s	ELECT	2.2		50V

C505	1-124-462-00	s	ELECT	10	20%	16V
C506	1-135-100-21	s	TANTAL	6.8	10%	6.3V
C601	1-124-462-00	s	ELECT	10	20%	16V
C602	1-124-257-00	s	ELECT	2.2		50V
C603	1-124-257-00	s	ELECT	2.2		50V
C605	1-124-462-00	s	ELECT	10	20%	16V
C606	1-135-100-21	s	TANTAL	6.8	10%	6.3V
G701	1-124-462-00	s	ELECT	10	20%	16V
C702	1-124-257-00	s	ELECT	2.2		50V
C703	1-124-257-00	s	ELECT	2.2		50V
C705	1-124-462-00	s	ELECT	10	20%	16V
C706	1-135-100-21	s	TANTAL	6.8	10%	6.3V
C801	1-124-462-00	s	ELECT	10	20%	16V
C802	1-124-257-00	s	ELECT	2.2		50V
C803	1-124-257-00	s	ELECT	2.2		50V
C805	1-124-462-00	s	ELECT	10	20%	16V
C806	1-135-100-21	s	TANTAL	6.8	10%	6.3V
C901	1-124-236-00	s	ELECT	47	20%	10V
C902	1-124-236-00	s	ELECT	47	20%	10V
C903	1-124-229-00	s	ELECT	33	20%	6.3V
C904	1-124-229-00	s	ELECT	33	20%	6.3V
C905	1-124-229-00	s	ELECT	33	20%	6.3V
C906	1-124-229-00	s	ELECT	33	20%	6.3V

D51	8-719-100-03	s	1S2835
D52	8-719-100-03	s	1S2835
D53	8-719-100-03	s	1S2835
D54	8-719-100-03	s	1S2835
D55	8-719-100-03	s	1S2835

D56	8-719-100-03	s	1S2835
D501	8-719-101-23	s	1S8123
D502	8-719-101-23	s	1S8123
D503	8-719-100-05	s	1S2837
D505	8-719-101-23	s	1S8123

D506	8-719-101-23	s	1S8123
D601	8-719-101-23	s	1S8123
D602	8-719-101-23	s	1S8123
D603	8-719-100-05	s	1S2837
D605	8-719-101-23	s	1S8123

D606	8-719-101-23	s	1S8123
D701	8-719-101-23	s	1S8123
D702	8-719-101-23	s	1S8123
D703	8-719-100-05	s	1S2837
D705	8-719-101-23	s	1S8123

D706	8-719-101-23	s	1S8123
D801	8-719-101-23	s	1S8123
D802	8-719-101-23	s	1S8123
D803	8-719-100-05	s	1S2837
D805	8-719-101-23	s	1S8123

D806	8-719-101-23	s	1S8123
D901	8-719-100-03	s	1S2835
D902	8-719-101-23	s	1S8123

IC1	8-759-208-14	s	TC4066BPHB (TOSHIBA)
IC51	8-759-700-07	s	NJM2903M (JRC)
IC52	8-759-700-07	s	NJM2903M (JRC)
IC53	8-759-700-07	s	NJM2903M (JRC)
IC54	8-759-700-07	s	NJM2903M (JRC)

IC101	8-759-700-84	s	NJM2041M-D (JRC)
IC201	8-759-700-84	s	NJM2041M-D (JRC)
IC301	8-759-700-84	s	NJM2041M-D (JRC)
IC401	8-759-700-84	s	NJM2041M-D (JRC)
IC501	8-759-981-54	s	RC2041MD (RAYTHEON)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
IC502	8-759-981-54	s	RC2041MD (RAYTHEON)
IC503	8-759-745-64	s	NJM4560M (JRC)
IC601	8-759-981-54	s	RC2041MD (RAYTHEON)
IC602	8-759-981-54	s	RC2041MD (RAYTHEON)
IC701	8-759-981-54	s	RC2041MD (RAYTHEON)
IC702	8-759-981-54	s	RC2041MD (RAYTHEON)
IC703	8-759-745-64	s	NJM4560M (JRC)
IC801	8-759-981-54	s	RC2041MD (RAYTHEON)
IC802	8-759-981-54	s	RC2041MD (RAYTHEON)
IC901	8-759-201-00	s	TC4052BF (TOSHIBA)
IC902	8-759-700-84	s	NJM2041M-D (JRC)
IC903	8-759-207-74	s	TC4030BFHB (TOSHIBA)
IC904	8-759-745-64	s	NJM4560M (JRC)
Q1	8-729-901-06	s	DTA144Ek
Q2	8-729-901-01	s	DTC144Ek
Q51	8-729-901-06	s	DTA144Ek
Q52	8-729-901-01	s	DTC144Ek
Q53	8-729-901-06	s	DTA144Ek
Q54	8-729-901-01	s	DTC144Ek
Q55	8-729-901-06	s	DTA144Ek
Q56	8-729-901-01	s	DTC144Ek
Q57	8-729-901-01	s	DTC144Ek
Q58	8-729-202-38	s	2SC3326N
Q501	8-729-202-38	s	2SC3326N
Q601	8-729-202-38	s	2SC3326N
Q701	8-729-202-38	s	2SC3326N
Q801	8-729-202-38	s	2SC3326N
Q901	8-729-905-53	s	2SD1055-R
Q902	8-729-982-23	s	2SB822
Q903	8-729-801-46	s	2SC3064F
R51	1-216-696-11	s	METAL CHIP 75k 0.50% 1/10W
R56	1-216-696-11	s	METAL CHIP 75k 0.50% 1/10W
R78	1-216-685-11	s	METAL CHIP 27k 0.50% 1/10W
R79	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R101	1-216-070-00	s	CHIP 7.5k 5% 1/10W
R201	1-216-070-00	s	CHIP 7.5k 5% 1/10W
R301	1-216-070-00	s	CHIP 7.5k 5% 1/10W
R401	1-216-070-00	s	CHIP 7.5k 5% 1/10W
R503	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R504	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R505	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R506	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R507	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R509	1-216-693-11	s	METAL CHIP 56k 0.50% 1/10W
R510	1-216-748-11	s	METAL CHIP 39k 5% 1/10W
R512	1-216-685-11	s	METAL CHIP 27k 0.50% 1/10W
R513	1-216-689-11	s	METAL CHIP 39k 0.50% 1/10W
R516	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W
R521	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R522	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R603	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R604	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R605	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R606	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R607	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R609	1-216-693-11	s	METAL CHIP 56k 0.50% 1/10W
R610	1-216-748-11	s	METAL CHIP 39k 5% 1/10W
R612	1-216-685-11	s	METAL CHIP 27k 0.50% 1/10W
R613	1-216-689-11	s	METAL CHIP 39k 0.50% 1/10W
R616	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W

Ref.No.	Parts No.	SP	Description
R621	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R622	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R703	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R704	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R705	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R706	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R707	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R709	1-216-693-11	s	METAL CHIP 56k 0.50% 1/10W
R710	1-216-748-11	s	METAL CHIP 39k 5% 1/10W
R712	1-216-685-11	s	METAL CHIP 27k 0.50% 1/10W
R713	1-216-689-11	s	METAL CHIP 39k 0.50% 1/10W
R716	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W
R721	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R722	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R803	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R804	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R805	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R806	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R807	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R809	1-216-693-11	s	METAL CHIP 56k 0.50% 1/10W
R810	1-216-748-11	s	METAL CHIP 39k 5% 1/10W
R812	1-216-685-11	s	METAL CHIP 27k 0.50% 1/10W
R813	1-216-689-11	s	METAL CHIP 39k 0.50% 1/10W
R816	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W
R821	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R822	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R921	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R922	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R923	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R924	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R925	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
RV101	1-237-502-21	s	VAR, CERMET 5k
RV102	1-237-502-21	s	VAR, CERMET 5k
RV201	1-237-502-21	s	VAR, CERMET 5k
RV202	1-237-502-21	s	VAR, CERMET 5k
RV301	1-237-502-21	s	VAR, CERMET 5k
RV302	1-237-502-21	s	VAR, CERMET 5k
RV401	1-237-502-21	s	VAR, CERMET 5k
RV402	1-237-502-21	s	VAR, CERMET 5k
RV501	1-237-518-21	s	VAR, CERMET 10k
RV601	1-237-518-21	s	VAR, CERMET 10k
RV701	1-237-518-21	s	VAR, CERMET 10k
RV801	1-237-518-21	s	VAR, CERMET 10k
RV901	1-237-519-21	s	VAR, CERMET 20k
RV902	1-237-517-21	s	VAR, CERMET 5k
RV903	1-237-518-21	s	VAR, CERMET 10k

CCM-2 BOARD

1-623-198-11 o PRINTED CIRCUIT BOARD, CCM-2

M008 1-541-376-11 s MOTOR, DC (DNR-4700A)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

CF-36, CL-14/24, CP-101

Ref.No. Parts No. SP Description

CF-36 BOARD

All the component parts on the CF-36 board are supplied together when you order the DEC-42 board.

1-625-948-11 o PRINTED CIRCUIT BOARD, CF-36

C659	1-126-154-11	s	ELECT	47	20%	6.3V
C680	1-162-881-11	s	CERAMIC	150pF	5%	50V
C681	1-162-877-11	s	CERAMIC	82pF	5%	50V
C739	1-135-159-21	s	TANTAL	10	10%	10V
C741	1-135-159-21	s	TANTAL	10	10%	10V
C742	1-135-159-21	s	TANTAL	10	10%	10V
C744	1-135-159-21	s	TANTAL	10	10%	10V
C745	1-135-159-21	s	TANTAL	10	10%	10V

CN501	1-563-889-11	o	SOCKET	14P
CN502	1-565-061-11	o	SOCKET	16P

D507	8-719-100-03	s	1S2835
D550	8-719-911-19	s	1S1119
D551	8-719-911-19	s	1S1119

DL500	1-415-538-11	s	ACTIVE	100ns
DL501	1-415-541-11	s	ACTIVE	100ns

FB506 1-535-178-00 s FERRITE BEAD

FL500 1-236-139-11 s LOW-PASS

IC516	8-759-907-81	s	SN74LS221NS (TI)
IC517	8-759-907-81	s	SN74LS221NS (TI)
IC518	8-759-907-81	s	SN74LS221NS (TI)
IC519	8-759-208-11	s	TC4053BFHB (TOSHIBA)
IC522	8-759-907-81	s	SN74LS221NS (TI)
IC523	8-759-930-57	s	SN74LS164NS (TI)
IC527	8-759-205-06	s	TC74HC74F (TOSHIBA)
IC528	8-759-907-81	s	SN74LS221NS (TI)
IC529	8-759-205-06	s	TC74HC74F (TOSHIBA)
IC530	8-759-941-27	s	MB4002PF (FUJITSU)

IC531	8-759-941-27	s	MB4002PF (FUJITSU)
IC549	8-759-204-94	s	TC74HC00F (TOSHIBA)
IC550	8-759-204-98	s	TC74HC08F (TOSHIBA)
IC551	8-759-205-06	s	TC74HC74F (TOSHIBA)
IC552	8-759-204-94	s	TC74HC00F (TOSHIBA)

L712	1-410-482-31	s	MICRO	100
L713	1-410-482-31	s	MICRO	100
L714	1-410-482-31	s	MICRO	100
L715	1-410-482-31	s	MICRO	100

Q514	8-729-202-38	s	2SC3326N
Q515	8-729-271-23	s	2SC2712
Q516	8-729-271-23	s	2SC2712
Q517	8-729-271-23	s	2SC2712

Ref.No. Parts No. SP Description

R633	1-216-671-11	s	METAL CHIP	6.8k	0.50%	1/10W
R638	1-216-680-11	s	METAL CHIP	16k	0.50%	1/10W
R640	1-216-680-11	s	METAL CHIP	16k	0.50%	1/10W
R646	1-216-666-11	s	METAL CHIP	4.3k	0.50%	1/10W
R647	1-216-675-11	s	METAL CHIP	10k	0.50%	1/10W

R660	1-216-657-11	s	METAL CHIP	1.8k	0.50%	1/10W
R663	1-216-653-11	s	METAL CHIP	1.2k	0.50%	1/10W
R668	1-216-667-11	s	METAL CHIP	4.7k	0.50%	1/10W
R673	1-216-667-11	s	METAL CHIP	4.7k	0.50%	1/10W
R675	1-216-667-11	s	METAL CHIP	4.7k	0.50%	1/10W

R678	1-216-683-11	s	METAL CHIP	22k	0.50%	1/10W
R683	1-216-644-11	s	METAL CHIP	510	0.50%	1/10W
R684	1-216-644-11	s	METAL CHIP	510	0.50%	1/10W
R690	1-216-694-11	s	METAL CHIP	62k	0.50%	1/10W

RV506	1-230-522-11	s	VAR, METAL GLAZE	4.7k
RV507	1-230-522-11	s	VAR, METAL GLAZE	4.7k
RV508	1-230-521-11	s	VAR, METAL GLAZE	2.2k
RV509	1-230-522-11	s	VAR, METAL GLAZE	4.7k
RV510	1-230-522-11	s	VAR, METAL GLAZE	4.7k

CL-14 BOARD

1-622-602-11 o PRINTED CIRCUIT BOARD, CL-14

CN332 1-563-969-11 o 7P

CL-24 BOARD

A-6759-499-A o MOUNTED CIRCUIT BOARD, CL-24

D1	8-719-820-27	s	TLY256
D2	8-719-820-27	s	TLY256
D3	8-719-820-27	s	TLY256
D4	8-719-820-27	s	TLY256
D5	8-719-820-27	s	TLY256
D6	8-719-820-27	s	TLY256

R1	1-247-702-11	s	CARBON	150	5%	1/4W
R2	1-247-702-11	s	CARBON	150	5%	1/4W
R3	1-247-702-11	s	CARBON	150	5%	1/4W

CP-101 BOARD

A-6729-470-A o MOUNTED CIRCUIT BOARD, CP-101

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
C1	1-124-584-00	s	ELECT 100 20% 10V
C4	1-124-584-00	s	ELECT 100 20% 10V
C8	1-124-584-00	s	ELECT 100 20% 10V
C10	1-124-584-00	s	ELECT 100 20% 10V
C52	1-124-584-00	s	ELECT 100 20% 10V
C54	1-124-584-00	s	ELECT 100 20% 10V
C104	1-124-141-00	s	ELECT 330 20% 10V
C107	1-124-236-00	s	ELECT 47 20% 10V
C204	1-124-141-00	s	ELECT 330 20% 10V
C207	1-124-236-00	s	ELECT 47 20% 10V
C304	1-124-141-00	s	ELECT 330 20% 10V
C307	1-124-236-00	s	ELECT 47 20% 10V
C404	1-124-141-00	s	ELECT 330 20% 10V
C407	1-124-236-00	s	ELECT 47 20% 10V
C421	1-126-103-11	s	ELECT 470 20% 16V
C422	1-126-103-11	s	ELECT 470 20% 16V
C423	1-126-103-11	s	ELECT 470 20% 16V
C424	1-126-103-11	s	ELECT 470 20% 16V
C427	1-102-106-00	s	CERAMIC 100pF 10% 50V
C428	1-102-106-00	s	CERAMIC 100pF 10% 50V

D101	8-719-910-95	s	HZ9A2L
D102	8-719-910-95	s	HZ9A2L
D103	8-719-910-95	s	HZ9A2L
D104	8-719-910-95	s	HZ9A2L
D201	8-719-910-95	s	HZ9A2L
D202	8-719-910-95	s	HZ9A2L
D203	8-719-910-95	s	HZ9A2L
D204	8-719-910-95	s	HZ9A2L
D301	8-719-910-95	s	HZ9A2L
D302	8-719-910-95	s	HZ9A2L
D303	8-719-910-95	s	HZ9A2L
D304	8-719-910-95	s	HZ9A2L
D401	8-719-910-95	s	HZ9A2L
D402	8-719-910-95	s	HZ9A2L
D403	8-719-910-95	s	HZ9A2L
D404	8-719-910-95	s	HZ9A2L

FB1	1-535-178-00	s	FERRITE BEAD
FB2	1-535-178-00	s	FERRITE BEAD
FB3	1-535-178-00	s	FERRITE BEAD
FB4	1-535-178-00	s	FERRITE BEAD
FB5	1-535-178-00	s	FERRITE BEAD
FB6	1-535-178-00	s	FERRITE BEAD

IC1	8-752-015-81	s	CX20158 (SONY)
IC2	8-752-015-81	s	CX20158 (SONY)
IC101	8-759-900-72	s	NE5532P (SEGNETICS)
IC102	8-759-900-72	s	NE5532P (SEGNETICS)
IC201	8-759-900-72	s	NE5532P (SEGNETICS)

IC301	8-759-900-72	s	NE5532P (SEGNETICS)
IC302	8-759-900-72	s	NE5532P (SEGNETICS)
IC401	8-759-900-72	s	NE5532P (SEGNETICS)

L1	1-410-482-31	s	MICRO 100
L2	1-410-482-31	s	MICRO 100

Q401	8-729-905-53	s	2SD1055-R
Q402	8-729-982-23	s	2SB822

Ref.No.	Parts No.	SP	Description
R422	1-247-745-11	s	CARBON 330 5% 1/2W
R423	1-247-745-11	s	CARBON 330 5% 1/2W

S1	1-570-157-21	s	SLIDE
S2	1-570-157-21	s	SLIDE
S3	1-554-958-11	s	SLIDE (PC BOARD)
S4	1-554-377-00	s	SLIDE
S101	1-554-958-11	s	SLIDE (PC BOARD)
S102	1-571-062-11	s	SLIDE
S201	1-554-958-11	s	SLIDE (PC BOARD)
S202	1-571-062-11	s	SLIDE
S301	1-554-958-11	s	SLIDE (PC BOARD)
S302	1-571-062-11	s	SLIDE
S401	1-554-958-11	s	SLIDE (PC BOARD)
S402	1-571-062-11	s	SLIDE

CP-103 BOARD

A-6717-445-A o MOUNTED CIRCUIT BOARD, CP-103

C1	1-124-234-00	s	ELECT 22 20% 16V
C3	1-124-234-00	s	ELECT 22 20% 16V

GN501 1-559-264-11 o WIRE ASS'Y, FLAT TYPE(30 CORE)

IC1 8-759-009-07 s MC14053BF (MOTOROLA)

L1	1-410-470-31	s	MICRO 10
L2	1-410-470-31	s	MICRO 10

Q1 8-729-901-05 s DTA124EK

RV1	1-237-696-11	s	VAR, CARBON 5k
RV2	1-237-696-11	s	VAR, CARBON 5k
RV3	1-237-696-11	s	VAR, CARBON 5k
RV4	1-237-695-11	s	VAR, CARBON 5k
RV5	1-237-696-11	s	VAR, CARBON 5k

RV6	1-237-696-11	s	VAR, CARBON 5k
RV7	1-237-695-11	s	VAR, CARBON 5k
RV8	1-237-696-11	s	VAR, CARBON 5k

S1	1-570-157-51	s	SLIDE
S2	1-570-157-51	s	SLIDE
S3	1-570-157-51	s	SLIDE
S4	1-570-157-51	s	SLIDE
S5	1-570-157-51	s	SLIDE

S6	1-571-061-11	s	SLIDE
S7	1-570-157-51	s	SLIDE
S8	1-570-157-51	s	SLIDE
S9	1-570-157-51	s	SLIDE
S10	1-570-157-51	s	SLIDE

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
S11	1-570-157-51	s	SLIDE
S12	1-570-157-51	s	SLIDE
S15	1-554-949-11	s	SLIDE

CP-111 BOARD

This board includes the CP-113 board.

A-6713-274-A o MOUNTED CIRCUIT BOARD, CP-111

1-560-733-00	s	PIN, SHORT
1-561-832-00	s	SOCKET, SHORT

C20	1-136-153-00	s	MYLAR	0.01	10%	50V
C21	1-126-157-11	s	ELECT	10	20%	16V
C36	1-124-462-00	s	ELECT	10	20%	16V
C42	1-124-236-00	s	ELECT	47	20%	10V
C43	1-124-236-00	s	ELECT	47	20%	10V
C51	1-124-462-00	s	ELECT	10	20%	16V
C52	1-124-462-00	s	ELECT	10	20%	16V
C53	1-124-462-00	s	ELECT	10	20%	16V
C54	1-124-462-00	s	ELECT	10	20%	16V
C158	1-124-462-00	s	ELECT	10	20%	16V

C159	1-124-462-00	s	ELECT	10	20%	16V
C160	1-124-462-00	s	ELECT	10	20%	16V
C161	1-124-462-00	s	ELECT	10	20%	16V
C162	1-126-103-11	s	ELECT	470	20%	16V
C163	1-126-103-11	s	ELECT	470	20%	16V

C258	1-124-462-00	s	ELECT	10	20%	16V
C259	1-124-462-00	s	ELECT	10	20%	16V
C260	1-124-462-00	s	ELECT	10	20%	16V
C261	1-124-462-00	s	ELECT	10	20%	16V
C262	1-126-103-11	s	ELECT	470	20%	16V

C263	1-126-103-11	s	ELECT	470	20%	16V
C264	1-126-103-11	s	ELECT	470	20%	16V
C265	1-126-103-11	s	ELECT	470	20%	16V
C266	1-102-106-00	s	CERAMIC	100pF	10%	50V
C267	1-126-103-11	s	ELECT	470	20%	16V

C268	1-136-161-00	s	MYLAR	0.047	10%	50V
C269	1-126-103-11	s	ELECT	470	20%	16V
C270	1-136-161-00	s	MYLAR	0.047	10%	50V
C271	1-102-106-00	s	CERAMIC	100pF	10%	50V
C273	1-124-462-00	s	ELECT	10	20%	16V

C358	1-124-462-00	s	ELECT	10	20%	16V
C359	1-124-462-00	s	ELECT	10	20%	16V
C360	1-124-462-00	s	ELECT	10	20%	16V
C361	1-124-462-00	s	ELECT	10	20%	16V
C362	1-126-103-11	s	ELECT	470	20%	16V

C363	1-126-103-11	s	ELECT	470	20%	16V
C458	1-124-462-00	s	ELECT	10	20%	16V
C459	1-124-462-00	s	ELECT	10	20%	16V
C460	1-124-462-00	s	ELECT	10	20%	16V
C461	1-124-462-00	s	ELECT	10	20%	16V

C462	1-126-103-11	s	ELECT	470	20%	16V
C463	1-126-103-11	s	ELECT	470	20%	16V
C464	1-126-103-11	s	ELECT	470	20%	16V
C465	1-126-103-11	s	ELECT	470	20%	16V
C466	1-102-106-00	s	CERAMIC	100pF	10%	50V

Ref.No.	Parts No.	SP	Description
C467	1-126-103-11	s	ELECT 470 20% 16V
C468	1-136-161-00	s	MYLAR 0.047 10% 50V
C469	1-126-103-11	s	ELECT 470 20% 16V
C470	1-136-161-00	s	MYLAR 0.047 10% 50V
C471	1-102-106-00	s	CERAMIC 100pF 10% 50V
C558	1-124-462-00	s	ELECT 10 20% 16V
C559	1-124-462-00	s	ELECT 10 20% 16V
C560	1-124-462-00	s	ELECT 10 20% 16V
C561	1-124-462-00	s	ELECT 10 20% 16V
C562	1-126-103-11	s	ELECT 470 20% 16V
C563	1-126-103-11	s	ELECT 470 20% 16V
C658	1-124-462-00	s	ELECT 10 20% 16V
C659	1-124-462-00	s	ELECT 10 20% 16V
C660	1-124-462-00	s	ELECT 10 20% 16V
C661	1-124-462-00	s	ELECT 10 20% 16V
C662	1-126-103-11	s	ELECT 470 20% 16V
C663	1-126-103-11	s	ELECT 470 20% 16V
C664	1-126-103-11	s	ELECT 470 20% 16V
C665	1-126-103-11	s	ELECT 470 20% 16V
C666	1-102-106-00	s	CERAMIC 100pF 10% 50V
C667	1-126-103-11	s	ELECT 470 20% 16V
C668	1-136-161-00	s	MYLAR 0.047 10% 50V
C669	1-126-103-11	s	ELECT 470 20% 16V
C670	1-136-161-00	s	MYLAR 0.047 10% 50V
C671	1-102-106-00	s	CERAMIC 100pF 10% 50V

D1	8-719-100-43	s	RD7.5
D2	8-719-100-43	s	RD7.5
D3	8-719-100-43	s	RD7.5
D151	8-719-921-11	s	HZ2ALL
D152	8-719-911-19	s	1SS119

D153	8-719-911-19	s	1SS119
D154	8-719-921-11	s	HZ2ALL
D155	8-719-921-11	s	HZ2ALL
D156	8-719-911-19	s	1SS119
D157	8-719-911-19	s	1SS119

D158	8-719-921-11	s	HZ2ALL
D251	8-719-921-11	s	HZ2ALL
D252	8-719-911-19	s	1SS119
D253	8-719-911-19	s	1SS119
D254	8-719-921-11	s	HZ2ALL

D255	8-719-921-11	s	HZ2ALL
D256	8-719-911-19	s	1SS119
D257	8-719-911-19	s	1SS119
D258	8-719-921-11	s	HZ2ALL
D259	8-719-200-02	s	10E2

D260	8-719-200-02	s	10E2
D351	8-719-921-11	s	HZ2ALL
D352	8-719-911-19	s	1SS119
D353	8-719-911-19	s	1SS119
D354	8-719-921-11	s	HZ2ALL

D355	8-719-921-11	s	HZ2ALL
D356	8-719-911-19	s	1SS119
D357	8-719-911-19	s	1SS119
D358	8-719-921-11	s	HZ2ALL
D451	8-719-921-11	s	HZ2ALL

D452	8-719-911-19	s	1SS119
D453	8-719-911-19	s	1SS119
D454	8-719-921-11	s	HZ2ALL
D455	8-719-921-11	s	HZ2ALL
D456	8-719-911-19	s	1SS119

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

D457 8-719-911-19 s 1SS119
D458 8-719-921-11 s HZ2ALL
D551 8-719-921-11 s HZ2ALL
D552 8-719-911-19 s 1SS119
D553 8-719-911-19 s 1SS119

D554 8-719-921-11 s HZ2ALL
D555 8-719-921-11 s HZ2ALL
D556 8-719-911-19 s 1SS119
D557 8-719-911-19 s 1SS119
D558 8-719-921-11 s HZ2ALL

D651 8-719-921-11 s HZ2ALL
D652 8-719-911-19 s 1SS119
D653 8-719-911-19 s 1SS119
D654 8-719-921-11 s HZ2ALL
D655 8-719-921-11 s HZ2ALL

D656 8-719-911-19 s 1SS119
D657 8-719-911-19 s 1SS119
D658 8-719-921-11 s HZ2ALL

IC31 8-759-745-61 s NJM4560D-D (JRC)
IC32 8-759-208-12 s TC4016BPHB (TOSHIBA)
IC33 8-759-745-61 s NJM4560D-D (JRC)
IC34 8-759-745-61 s NJM4560D-D (JRC)
IC35 8-759-745-61 s NJM4560D-D (JRC)

IC36 8-759-208-12 s TC4016BPHB (TOSHIBA)
IC37 8-759-700-04 s NJM2043D-D (JRC)
IC38 8-759-208-12 s TC4016BPHB (TOSHIBA)
IC39 8-759-700-04 s NJM2043D-D (JRC)
IC40 8-759-700-04 s NJM2043D-D (JRC)

IC41 8-759-982-21 s RC78L05A (RAYTHEON)
IC42 8-759-208-12 s TC4016BPHB (TOSHIBA)

Q31 8-729-900-30 s DTA144EF
Q32 8-729-201-05 s 2SC2878-B
Q33 8-729-900-30 s DTA144EF
Q34 8-766-001-49 s TX429M
Q35 8-729-900-33 s DTC144EF

Q36 8-729-900-33 s DTC144EF
Q37 8-729-900-30 s DTA144EF
Q38 8-729-900-33 s DTC144EF
Q155 8-729-306-92 s 2SD669A-C
Q156 8-729-304-92 s 2SB649A

Q157 8-729-306-92 s 2SD669A-C
Q158 8-729-304-92 s 2SB649A
Q255 8-729-306-92 s 2SD669A-C
Q256 8-729-304-92 s 2SB649A
Q257 8-729-306-92 s 2SD669A-C

Q258 8-729-304-92 s 2SB649A
Q259 8-729-905-53 s 2SD1055-R
Q260 8-729-982-23 s 2SB822
Q261 8-729-177-54 s 2SA1175
Q355 8-729-306-92 s 2SD669A-C

Q356 8-729-304-92 s 2SB649A
Q357 8-729-306-92 s 2SD669A-C
Q358 8-729-304-92 s 2SB649A
Q455 8-729-306-92 s 2SD669A-C
Q456 8-729-304-92 s 2SB649A

Q457 8-729-306-92 s 2SD669A-C
Q458 8-729-304-92 s 2SB649A
Q459 8-729-905-53 s 2SD1055-R
Q460 8-729-982-23 s 2SB822
Q555 8-729-306-92 s 2SD669A-C

Ref.No. Parts No. SP Description

Q556 8-729-304-92 s 2SB649A
Q557 8-729-306-92 s 2SD669A-C
Q558 8-729-304-92 s 2SB649A
Q655 8-729-306-92 s 2SD669A-C
Q656 8-729-304-92 s 2SB649A

Q657 8-729-306-92 s 2SD669A-C
Q658 8-729-304-92 s 2SB649A
Q659 8-729-905-53 s 2SD1055-R
Q660 8-729-982-23 s 2SB822

R39 1-247-887-00 s CARBON 220k 5% 1/4W
R40 1-247-887-00 s CARBON 220k 5% 1/4W
R41 1-247-887-00 s CARBON 220k 5% 1/4W
R42 1-247-887-00 s CARBON 220k 5% 1/4W
R43 1-247-887-00 s CARBON 220k 5% 1/4W

R44 1-247-887-00 s CARBON 220k 5% 1/4W
R48 1-247-887-00 s CARBON 220k 5% 1/4W
R49 1-247-887-00 s CARBON 220k 5% 1/4W
R53 1-247-887-00 s CARBON 220k 5% 1/4W
R54 1-247-887-00 s CARBON 220k 5% 1/4W

R55 1-247-887-00 s CARBON 220k 5% 1/4W
R57 1-247-887-00 s CARBON 220k 5% 1/4W
R58 1-247-887-00 s CARBON 220k 5% 1/4W
R68 1-247-887-00 s CARBON 220k 5% 1/4W
R173 1-247-731-11 s CARBON 22 5% 1/2W

R174 1-247-731-11 s CARBON 22 5% 1/2W
R175 1-247-731-11 s CARBON 22 5% 1/2W
R176 1-247-731-11 s CARBON 22 5% 1/2W
R177 1-249-455-11 s CARBON 4.7 5% 1/4W
R179 1-249-455-11 s CARBON 4.7 5% 1/4W

R273 1-247-731-11 s CARBON 22 5% 1/2W
R274 1-247-731-11 s CARBON 22 5% 1/2W
R275 1-247-731-11 s CARBON 22 5% 1/2W
R276 1-247-731-11 s CARBON 22 5% 1/2W
R277 1-249-455-11 s CARBON 4.7 5% 1/4W

R279 1-249-455-11 s CARBON 4.7 5% 1/4W
R284 1-247-745-11 s CARBON 330 5% 1/2W
R285 1-247-745-11 s CARBON 330 5% 1/2W
R373 1-247-731-11 s CARBON 22 5% 1/2W
R374 1-247-731-11 s CARBON 22 5% 1/2W

R375 1-247-731-11 s CARBON 22 5% 1/2W
R376 1-247-731-11 s CARBON 22 5% 1/2W
R377 1-249-455-11 s CARBON 4.7 5% 1/4W
R379 1-249-455-11 s CARBON 4.7 5% 1/4W
R473 1-247-731-11 s CARBON 22 5% 1/2W

R474 1-247-731-11 s CARBON 22 5% 1/2W
R475 1-247-731-11 s CARBON 22 5% 1/2W
R476 1-247-731-11 s CARBON 22 5% 1/2W
R477 1-249-455-11 s CARBON 4.7 5% 1/4W
R479 1-249-455-11 s CARBON 4.7 5% 1/4W

R484 1-247-745-11 s CARBON 330 5% 1/2W
R485 1-247-745-11 s CARBON 330 5% 1/2W
R573 1-247-731-11 s CARBON 22 5% 1/2W
R574 1-247-731-11 s CARBON 22 5% 1/2W
R575 1-247-731-11 s CARBON 22 5% 1/2W

R576 1-247-731-11 s CARBON 22 5% 1/2W
R577 1-249-455-11 s CARBON 4.7 5% 1/4W
R579 1-249-455-11 s CARBON 4.7 5% 1/4W
R673 1-247-731-11 s CARBON 22 5% 1/2W
R674 1-247-731-11 s CARBON 22 5% 1/2W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

R675 1-247-731-11 s CARBON 22 5% 1/2W
 R676 1-247-731-11 s CARBON 22 5% 1/2W
 R677 1-249-455-11 s CARBON 4.7 5% 1/4W
 R679 1-249-455-11 s CARBON 4.7 5% 1/4W
 R684 1-247-745-11 s CARBON 330 5% 1/2W

R685 1-247-745-11 s CARBON 330 5% 1/2W

RV151 1-230-522-11 s VAR, METAL GLAZE 4.7k
 RV251 1-230-522-11 s VAR, METAL GLAZE 4.7k
 RV351 1-230-522-11 s VAR, METAL GLAZE 4.7k
 RV451 1-230-522-11 s VAR, METAL GLAZE 4.7k
 RV551 1-230-522-11 s VAR, METAL GLAZE 4.7k
 RV651 1-230-522-11 s VAR, METAL GLAZE 4.7k

CP-113 BOARD

All the component parts on the CP-113 board are supplied together when you order the CP-111 board.

1-622-572-11 o PRINTED CIRCUIT BOARD, CP-113

CN1 1-566-099-11 o BOARD TO BOARD 15P

D51 8-719-101-23 s 1SS123
 D53 8-719-101-23 s 1SS123

IC51 8-759-745-64 s NJM4560M (JRC)

Q51 8-729-202-38 s 2SC3326N
 Q52 8-729-202-38 s 2SC3326N
 Q53 8-729-202-38 s 2SC3326N
 Q54 8-729-202-38 s 2SC3326N

R54 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R56 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R57 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R58 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R60 1-216-679-11 s METAL CHIP 15k 0.50% 1/10W

R62 1-216-679-11 s METAL CHIP 15k 0.50% 1/10W
 R81 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R82 1-216-679-11 s METAL CHIP 15k 0.50% 1/10W

Ref.No. Parts No. SP Description

CP-161A BOARD

A-6713-420-A o MOUNTED CIRCUIT BOARD, CP-161A

C1 1-126-103-11 s ELECT 470 20% 16V
 C101 1-126-396-11 s ELECT CHIP 47 20% 16V
 C106 1-126-394-11 s ELECT CHIP 10 20% 16V
 C107 1-126-394-11 s ELECT CHIP 10 20% 16V
 C108 1-126-394-11 s ELECT CHIP 10 20% 16V

C109 1-126-394-11 s ELECT CHIP 10 20% 16V
 C110 1-126-103-11 s ELECT 470 20% 16V
 C111 1-126-103-11 s ELECT 470 20% 16V
 C201 1-126-396-11 s ELECT CHIP 47 20% 16V
 C206 1-126-394-11 s ELECT CHIP 10 20% 16V

C207 1-126-394-11 s ELECT CHIP 10 20% 16V
 C208 1-126-394-11 s ELECT CHIP 10 20% 16V
 C209 1-126-394-11 s ELECT CHIP 10 20% 16V
 C210 1-126-103-11 s ELECT 470 20% 16V
 C211 1-126-103-11 s ELECT 470 20% 16V

C301 1-126-396-11 s ELECT CHIP 47 20% 16V
 C306 1-126-394-11 s ELECT CHIP 10 20% 16V
 C307 1-126-394-11 s ELECT CHIP 10 20% 16V
 C308 1-126-394-11 s ELECT CHIP 10 20% 16V
 C309 1-126-394-11 s ELECT CHIP 10 20% 16V

C310 1-126-103-11 s ELECT 470 20% 16V
 C311 1-126-103-11 s ELECT 470 20% 16V
 C401 1-126-396-11 s ELECT CHIP 47 20% 16V
 C406 1-126-394-11 s ELECT CHIP 10 20% 16V
 C407 1-126-394-11 s ELECT CHIP 10 20% 16V

C408 1-126-394-11 s ELECT CHIP 10 20% 16V
 C409 1-126-394-11 s ELECT CHIP 10 20% 16V
 C410 1-126-103-11 s ELECT 470 20% 16V
 C411 1-126-103-11 s ELECT 470 20% 16V
 C501 1-126-396-11 s ELECT CHIP 47 20% 16V

C506 1-126-394-11 s ELECT CHIP 10 20% 16V
 C507 1-126-394-11 s ELECT CHIP 10 20% 16V
 C508 1-126-394-11 s ELECT CHIP 10 20% 16V
 C509 1-126-394-11 s ELECT CHIP 10 20% 16V
 C510 1-126-103-11 s ELECT 470 20% 16V

C511 1-126-103-11 s ELECT 470 20% 16V
 C601 1-126-396-11 s ELECT CHIP 47 20% 16V
 C606 1-126-394-11 s ELECT CHIP 10 20% 16V
 C607 1-126-394-11 s ELECT CHIP 10 20% 16V
 C608 1-126-394-11 s ELECT CHIP 10 20% 16V

C609 1-126-394-11 s ELECT CHIP 10 20% 16V
 C610 1-126-103-11 s ELECT 470 20% 16V
 C611 1-126-103-11 s ELECT 470 20% 16V
 C701 1-126-396-11 s ELECT CHIP 47 20% 16V
 C702 1-126-396-11 s ELECT CHIP 47 20% 16V

C706 1-124-234-00 s ELECT 22 20% 16V
 C708 1-124-234-00 s ELECT 22 20% 16V
 C711 1-126-103-11 s ELECT 470 20% 16V
 C712 1-126-103-11 s ELECT 470 20% 16V
 C716 1-126-096-11 s ELECT 10 20% 35V

C801 1-126-103-11 s ELECT 470 20% 16V
 C802 1-126-103-11 s ELECT 470 20% 16V
 C804 1-126-103-11 s ELECT 470 20% 16V
 C806 1-126-103-11 s ELECT 470 20% 16V
 C809 1-126-103-11 s ELECT 470 20% 16V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

C810 1-126-103-11 s ELECT 470 20% 16V
C813 1-126-103-11 s ELECT 470 20% 16V
C814 1-126-103-11 s ELECT 470 20% 16V
C817 1-126-103-11 s ELECT 470 20% 16V
C818 1-126-103-11 s ELECT 470 20% 16V

C821 1-126-103-11 s ELECT 470 20% 16V
C822 1-126-103-11 s ELECT 470 20% 16V

CN407 1-506-470-11 s 5P, MALE
CN408 1-506-473-11 s 8P, MALE
CN409 1-506-469-11 s 4P, MALE
CN410 1-506-471-11 s 6P, MALE
CN411 1-506-469-11 s 4P, MALE

CN412 1-506-471-11 s 6P, MALE
CN413 1-506-468-11 s 3P, MALE
CN414 1-506-469-11 s 4P, MALE
CN415 1-506-470-11 s 5P, MALE

D1 8-719-200-02 s 10E2
D2 8-719-200-02 s 10E2
D101 8-719-800-76 s 1SS226
D102 8-719-800-76 s 1SS226
D103 8-719-800-76 s 1SS226

D104 8-719-800-76 s 1SS226
D105 8-719-104-34 s 1S2835
D106 8-719-104-34 s 1S2835
D107 8-719-104-34 s 1S2835
D108 8-719-104-34 s 1S2835

D201 8-719-800-76 s 1SS226
D202 8-719-800-76 s 1SS226
D203 8-719-800-76 s 1SS226
D204 8-719-800-76 s 1SS226
D205 8-719-104-34 s 1S2835

D206 8-719-104-34 s 1S2835
D207 8-719-104-34 s 1S2835
D208 8-719-104-34 s 1S2835
D301 8-719-800-76 s 1SS226
D302 8-719-800-76 s 1SS226

D303 8-719-800-76 s 1SS226
D304 8-719-800-76 s 1SS226
D305 8-719-104-34 s 1S2835
D306 8-719-104-34 s 1S2835
D307 8-719-104-34 s 1S2835

D308 8-719-104-34 s 1S2835
D401 8-719-800-76 s 1SS226
D402 8-719-800-76 s 1SS226
D403 8-719-800-76 s 1SS226
D404 8-719-800-76 s 1SS226

D405 8-719-104-34 s 1S2835
D406 8-719-104-34 s 1S2835
D407 8-719-104-34 s 1S2835
D408 8-719-104-34 s 1S2835
D501 8-719-800-76 s 1SS226

D502 8-719-800-76 s 1SS226
D503 8-719-800-76 s 1SS226
D504 8-719-800-76 s 1SS226
D505 8-719-104-34 s 1S2835
D506 8-719-104-34 s 1S2835

Ref.No. Parts No. SP Description

D507 8-719-104-34 s 1S2835
D508 8-719-104-34 s 1S2835
D601 8-719-800-76 s 1SS226
D602 8-719-800-76 s 1SS226
D603 8-719-800-76 s 1SS226

D604 8-719-800-76 s 1SS226
D605 8-719-104-34 s 1S2835
D606 8-719-104-34 s 1S2835
D607 8-719-104-34 s 1S2835
D608 8-719-104-34 s 1S2835

D701 8-719-400-18 s MA1 52WK
D702 8-719-400-18 s MA1 52WK
D703 8-719-800-76 s 1SS226
D704 8-719-800-76 s 1SS226
D705 8-719-800-76 s 1SS226

D706 8-719-800-76 s 1SS226
D707 8-719-800-76 s 1SS226
D708 8-719-800-76 s 1SS226
D709 8-719-400-18 s MA1 52WK
D710 8-719-400-18 s MA1 52WK

D711 8-719-400-18 s MA1 52WK
D712 8-719-400-18 s MA1 52WK

IC101 8-759-109-70 s UPC4560G2
IC102 8-759-109-70 s UPC4560G2
IC201 8-759-109-70 s UPC4560G2
IC202 8-759-109-70 s UPC4560G2
IC301 8-759-109-70 s UPC4560G2

IC302 8-759-109-70 s UPC4560G2
IC401 8-759-109-70 s UPC4560G2
IC402 8-759-109-70 s UPC4560G2
IC501 8-759-109-70 s UPC4560G2
IC502 8-759-109-70 s UPC4560G2

IC602 8-759-109-70 s UPC4560G2
IC701 8-759-109-70 s UPC4560G2
IC702 8-759-109-70 s UPC4560G2
IC703 8-759-109-70 s UPC4560G2
IC704 8-759-109-70 s UPC4560G2

IC705 8-759-109-70 s UPC4560G2
IC706 8-759-109-70 s UPC4560G2
IC707 8-759-109-70 s UPC4560G2
IC708 8-759-109-70 s UPC4560G2
IC709 8-759-109-70 s UPC4560G2

IC710 8-759-109-70 s UPC4560G2
IC711 8-759-109-70 s UPC4560G2
IC712 8-759-008-85 s MC14016BF
IC713 8-759-008-85 s MC14016BF
IC715 8-759-008-85 s MC14016BF

IC716 8-759-008-85 s MC14016BF
IC717 8-759-982-23 s TA78L008AP
IC718 8-759-982-46 s RC79L08A

Q1 8-729-216-22 s 2SA1162
Q51 8-766-001-49 s TX429M
Q52 8-729-901-01 s DTC144EK
Q53 8-729-901-06 s DTA144EK
Q101 8-729-202-38 s 2SC3326N

Q102 8-729-202-38 s 2SC3326N
Q103 8-729-202-38 s 2SC3326N
Q104 8-729-202-38 s 2SC3326N
Q105 8-729-180-93 s 2SD809
Q106 8-729-173-13 s 2SB731

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

Q107 8-729-180-93 s 2SD809
 Q108 8-729-173-13 s 2SB731
 Q109 8-729-271-22 s 2SC2712-G
 Q110 8-729-216-22 s 2SA1162
 Q111 8-729-271-22 s 2SC2712-G

Q112 8-729-216-22 s 2SA1162
 Q201 8-729-202-38 s 2SC3326N
 Q202 8-729-202-38 s 2SC3326N
 Q203 8-729-202-38 s 2SC3326N
 Q204 8-729-202-38 s 2SC3326N

Q205 8-729-180-93 s 2SD809
 Q206 8-729-173-13 s 2SB731
 Q207 8-729-180-93 s 2SD809
 Q208 8-729-173-13 s 2SB731
 Q209 8-729-271-22 s 2SC2712-G

Q210 8-729-216-22 s 2SA1162
 Q211 8-729-271-22 s 2SC2712-G
 Q212 8-729-216-22 s 2SA1162
 Q301 8-729-202-38 s 2SC3326N
 Q302 8-729-202-38 s 2SC3326N

Q303 8-729-202-38 s 2SC3326N
 Q304 8-729-202-38 s 2SC3326N
 Q305 8-729-180-93 s 2SD809
 Q306 8-729-173-13 s 2SB731
 Q307 8-729-180-93 s 2SD809

Q308 8-729-173-13 s 2SB731
 Q309 8-729-271-22 s 2SC2712-G
 Q310 8-729-216-22 s 2SA1162
 Q311 8-729-271-22 s 2SC2712-G
 Q312 8-729-216-22 s 2SA1162

Q401 8-729-202-38 s 2SC3326N
 Q402 8-729-202-38 s 2SC3326N
 Q403 8-729-202-38 s 2SC3326N
 Q404 8-729-202-38 s 2SC3326N
 Q405 8-729-180-93 s 2SD809

Q406 8-729-173-13 s 2SB731
 Q407 8-729-180-93 s 2SD809
 Q408 8-729-173-13 s 2SB731
 Q409 8-729-271-22 s 2SC2712-G
 Q410 8-729-216-22 s 2SA1162

Q411 8-729-271-22 s 2SC2712-G
 Q412 8-729-216-22 s 2SA1162
 Q501 8-729-202-38 s 2SC3326N
 Q502 8-729-202-38 s 2SC3326N
 Q503 8-729-202-38 s 2SC3326N

Q504 8-729-202-38 s 2SC3326N
 Q505 8-729-180-93 s 2SD809
 Q506 8-729-173-13 s 2SB731
 Q507 8-729-180-93 s 2SD809
 Q508 8-729-173-13 s 2SB731

Q509 8-729-271-22 s 2SC2712-G
 Q510 8-729-216-22 s 2SA1162
 Q511 8-729-271-22 s 2SC2712-G
 Q512 8-729-216-22 s 2SA1162
 Q601 8-729-202-38 s 2SC3326N

Q602 8-729-202-38 s 2SC3326N
 Q603 8-729-202-38 s 2SC3326N
 Q604 8-729-202-38 s 2SC3326N
 Q605 8-729-180-93 s 2SD809
 Q606 8-729-173-13 s 2SB731

Q607 8-729-180-93 s 2SD809
 Q608 8-729-173-13 s 2SB731
 Q609 8-729-271-22 s 2SC2712-G
 Q610 8-729-216-22 s 2SA1162
 Q611 8-729-271-22 s 2SC2712-G

Ref.No. Parts No. SP Description

Q612 8-729-216-22 s 2SA1162
 Q701 8-729-901-01 s DTC144EK
 Q702 8-729-901-06 s DTA144EK
 Q703 8-729-901-01 s DTC144EK
 Q704 8-729-901-06 s DTA144EK

Q705 8-729-901-01 s DTC144EK
 Q706 8-729-901-06 s DTA144EK
 Q707 8-729-901-01 s DTC144EK
 Q708 8-729-901-06 s DTA144EK
 Q709 8-729-901-06 s DTA144EK

Q710 8-729-901-01 s DTC144EK
 Q711 8-729-901-06 s DTA144EK
 Q712 8-729-901-01 s DTC144EK
 Q713 8-729-208-87 s 2SJ106-Y
 Q714 8-729-205-38 s 2SK208-Y

Q715 8-729-205-38 s 2SK208-Y
 Q716 8-729-208-87 s 2SJ106-Y
 Q717 8-729-901-06 s DTA144EK
 Q718 8-729-901-01 s DTC144EK
 Q719 8-729-202-38 s 2SC3326N

Q720 8-729-901-01 s DTC144EK
 Q721 8-729-901-01 s DTC144EK
 Q722 8-729-901-01 s DTC144EK
 Q723 8-729-216-22 s 2SA1162
 Q724 8-729-216-22 s 2SA1162

Q725 8-729-202-38 s 2SC3326N
 Q726 8-729-202-38 s 2SC3326N
 Q801 8-729-905-53 s 2SD1055-R
 Q802 8-729-205-95 s 2SB822-R
 Q803 8-729-905-53 s 2SD1055-R

Q804 8-729-205-95 s 2SB822-R
 Q805 8-729-905-53 s 2SD1055-R
 Q806 8-729-205-95 s 2SB822-R

R101 1-216-660-11 s METAL CHIP 2.4k 0.5% 1/10W
 R102 1-216-628-11 s METAL CHIP 110 0.5% 1/10W
 R103 1-216-654-11 s METAL CHIP 1.3k 0.5% 1/10W
 R104 1-216-662-11 s METAL CHIP 3k 0.5% 1/10W
 R105 1-216-659-11 s METAL CHIP 2.2k 0.5% 1/10W

R106 1-216-679-11 s METAL CHIP 15k 0.5% 1/10W
 R107 1-216-661-11 s METAL CHIP 2.7k 0.5% 1/10W
 R109 1-216-667-11 s METAL CHIP 4.7k 0.5% 1/10W
 R110 1-216-667-11 s METAL CHIP 4.7k 0.5% 1/10W
 R111 1-216-667-11 s METAL CHIP 4.7k 0.5% 1/10W

R112 1-216-667-11 s METAL CHIP 4.7k 0.5% 1/10W
 R114 1-216-679-11 s METAL CHIP 15k 0.5% 1/10W
 R116 1-216-679-11 s METAL CHIP 15k 0.5% 1/10W
 R131 1-249-389-11 s CARBON 4.7 5% 1/4W
 R132 1-216-679-11 s METAL CHIP 15k 0.5% 1/10W

R133 1-249-389-11 s CARBON 4.7 5% 1/4W
 R135 1-216-631-11 s METAL CHIP 150 0.5% 1/10W
 R136 1-216-679-11 s METAL CHIP 15k 0.5% 1/10W
 R138 1-216-631-11 s METAL CHIP 150 0.5% 1/10W
 R201 1-216-660-11 s METAL CHIP 2.4k 0.5% 1/10W

R202 1-216-628-11 s METAL CHIP 110 0.5% 1/10W
 R203 1-216-654-11 s METAL CHIP 1.3k 0.5% 1/10W
 R204 1-216-662-11 s METAL CHIP 3k 0.5% 1/10W
 R205 1-216-659-11 s METAL CHIP 2.2k 0.5% 1/10W
 R206 1-216-679-11 s METAL CHIP 15k 0.5% 1/10W

R207 1-216-661-11 s METAL CHIP 2.7k 0.5% 1/10W
 R209 1-216-667-11 s METAL CHIP 4.7k 0.5% 1/10W
 R210 1-216-667-11 s METAL CHIP 4.7k 0.5% 1/10W
 R211 1-216-667-11 s METAL CHIP 4.7k 0.5% 1/10W
 R212 1-216-667-11 s METAL CHIP 4.7k 0.5% 1/10W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
R214	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R216	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R231	1-249-389-11	s	CARBON 4.7 5% 1/4W
R232	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R233	1-249-389-11	s	CARBON 4.7 5% 1/4W
R235	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W
R236	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R238	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W
R301	1-216-660-11	s	METAL CHIP 2.4k 0.5% 1/10W
R302	1-216-628-11	s	METAL CHIP 110 0.5% 1/10W
R303	1-216-654-11	s	METAL CHIP 1.3k 0.5% 1/10W
R304	1-216-662-11	s	METAL CHIP 3k 0.5% 1/10W
R305	1-216-659-11	s	METAL CHIP 2.2k 0.5% 1/10W
R306	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R307	1-216-661-11	s	METAL CHIP 2.7k 0.5% 1/10W
R309	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R310	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R311	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R312	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R314	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R316	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R331	1-249-389-11	s	CARBON 4.7 5% 1/4W
R332	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R333	1-249-389-11	s	CARBON 4.7 5% 1/4W
R335	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W
R336	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R338	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W
R401	1-216-660-11	s	METAL CHIP 2.4k 0.5% 1/10W
R402	1-216-628-11	s	METAL CHIP 110 0.5% 1/10W
R403	1-216-654-11	s	METAL CHIP 1.3k 0.5% 1/10W
R404	1-216-662-11	s	METAL CHIP 3k 0.5% 1/10W
R405	1-216-659-11	s	METAL CHIP 2.2k 0.5% 1/10W
R406	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R407	1-216-661-11	s	METAL CHIP 2.7k 0.5% 1/10W
R409	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R410	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R411	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R412	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R414	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R416	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R431	1-249-389-11	s	CARBON 4.7 5% 1/4W
R432	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R433	1-249-389-11	s	CARBON 4.7 5% 1/4W
R435	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W
R436	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R438	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W
R501	1-216-660-11	s	METAL CHIP 2.4k 0.5% 1/10W
R502	1-216-628-11	s	METAL CHIP 110 0.5% 1/10W
R503	1-216-654-11	s	METAL CHIP 1.3k 0.5% 1/10W
R504	1-216-662-11	s	METAL CHIP 3k 0.5% 1/10W
R505	1-216-659-11	s	METAL CHIP 2.2k 0.5% 1/10W
R506	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R507	1-216-661-11	s	METAL CHIP 2.7k 0.5% 1/10W
R509	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R510	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R511	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R512	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R514	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R516	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R531	1-249-389-11	s	CARBON 4.7 5% 1/4W
R532	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R533	1-249-389-11	s	CARBON 4.7 5% 1/4W
R535	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W
R536	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R538	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W

Ref.No.	Parts No.	SP	Description
R601	1-216-660-11	s	METAL CHIP 2.4k 0.5% 1/10W
R602	1-216-628-11	s	METAL CHIP 110 0.5% 1/10W
R603	1-216-654-11	s	METAL CHIP 1.3k 0.5% 1/10W
R604	1-216-662-11	s	METAL CHIP 3k 0.5% 1/10W
R605	1-216-659-11	s	METAL CHIP 2.2k 0.5% 1/10W
R606	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R607	1-216-661-11	s	METAL CHIP 2.7k 0.5% 1/10W
R609	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R610	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R611	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R612	1-216-667-11	s	METAL CHIP 4.7k 0.5% 1/10W
R614	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R616	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R631	1-249-389-11	s	CARBON 4.7 5% 1/4W
R632	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R633	1-249-389-11	s	CARBON 4.7 5% 1/4W
R635	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W
R636	1-216-679-11	s	METAL CHIP 15k 0.5% 1/10W
R638	1-216-631-11	s	METAL CHIP 150 0.5% 1/10W
R739	1-216-121-00	s	METAL CHIP 1M 5% 1/10W
R740	1-216-121-00	s	METAL CHIP 1M 5% 1/10W
R744	1-216-121-00	s	METAL CHIP 1M 5% 1/10W
R745	1-216-121-00	s	METAL CHIP 1M 5% 1/10W
R747	1-216-659-11	s	METAL CHIP 2.2k 0.5% 1/10W
R750	1-216-659-11	s	METAL CHIP 2.2k 0.5% 1/10W
R752	1-216-659-11	s	METAL CHIP 2.2k 0.5% 1/10W
R801	1-249-411-11	s	CARBON 330 5% 1/4W
R802	1-249-411-11	s	CARBON 330 5% 1/4W
R803	1-249-411-11	s	CARBON 330 5% 1/4W
R804	1-249-411-11	s	CARBON 330 5% 1/4W
R805	1-249-411-11	s	CARBON 330 5% 1/4W
R806	1-249-411-11	s	CARBON 330 5% 1/4W
RV101	1-230-522-11	s	VAR, METAL 4.7k
RV201	1-230-522-11	s	VAR, METAL 4.7k
RV301	1-230-522-11	s	VAR, METAL 4.7k
RV401	1-230-522-11	s	VAR, METAL 4.7k
RV501	1-230-522-11	s	VAR, METAL 4.7k
RV601	1-230-522-11	s	VAR, METAL 4.7k

DE-15 BOARD

1-622-606-11	o	PRINTED CIRCUIT BOARD, DE-15
1-559-266-11	o	FLAT CABLE
DME	1-807-683-11	s RESISTER ELEMENT

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

DEC-27 BOARD

A-6711-815-A o MOUNTED CIRCUIT BOARD, DEC-27

C1	1-123-661-00	s	ELECT	100	20%	6.3V
C14	1-124-462-00	s	ELECT	10	20%	16V
C17	1-162-888-11	s	CERAMIC	560pF	5%	50V
C18	1-162-888-11	s	CERAMIC	560pF	5%	50V
C22	1-162-886-11	s	CERAMIC	390pF	5%	50V
C30	1-124-462-00	s	ELECT	10	20%	16V
C35	1-123-611-00	s	ELECT	1	20%	50V
C42	1-124-229-00	s	ELECT	33	20%	6.3V
C44	1-124-229-00	s	ELECT	33	20%	6.3V
C46	1-124-236-00	s	ELECT	47	20%	10V
C55	1-123-611-00	s	ELECT	1	20%	50V
C62	1-124-229-00	s	ELECT	33	20%	6.3V
C64	1-124-229-00	s	ELECT	33	20%	6.3V
C73	1-124-236-00	s	ELECT	47	20%	10V
C85	1-163-085-00	s	CERMIC	2pF	0.25pF	50V
C87	1-163-102-00	s	CHIP	240pF	5%	50V
C90	1-163-099-00	s	CERAMIC	18pF	5%	50V
C109	1-124-462-00	s	ELECT	10	20%	16V
C110	1-124-462-00	s	ELECT	10	20%	16V
C111	1-124-462-00	s	ELECT	10	20%	16V
C112	1-124-462-00	s	ELECT	10	20%	16V
C113	1-124-462-00	s	ELECT	10	20%	16V
C119	1-124-638-11	s	ELECT	22	20%	10V
C120	1-124-462-00	s	ELECT	10	20%	16V
C122	1-124-462-00	s	ELECT	10	20%	16V
C134	1-124-462-00	s	ELECT	10	20%	16V
C152	1-123-661-00	s	ELECT	100	20%	6.3V
C153	1-124-462-00	s	ELECT	10	20%	16V
C159	1-124-462-00	s	ELECT	10	20%	16V
C161	1-124-638-11	s	ELECT	22	20%	10V
C162	1-124-257-00	s	ELECT	2.2	20%	50V
9) C203	1-135-155-21	s	TANTAL	4.7	10%	10V
9) C204	1-135-159-21	s	TANTAL	10	10%	10V
9) C206	1-135-159-21	s	TANTAL	10	10%	10V
C400	1-126-103-11	s	ELECT	470	20%	16V
C401	1-126-103-11	s	ELECT	470	20%	16V
C403	1-126-103-11	s	ELECT	470	20%	16V
C404	1-124-462-00	s	ELECT	10	20%	16V
C408	1-124-236-00	s	ELECT	47	20%	10V
C410	1-123-661-00	s	ELECT	100	20%	6.3V
C412	1-124-462-00	s	ELECT	10	20%	16V
C420	1-124-462-00	s	ELECT	10	20%	16V
C421	1-126-157-11	s	ELECT	10	20%	16V
C422	1-124-462-00	s	ELECT	10	20%	16V
C428	1-124-462-00	s	ELECT	10	20%	16V
C436	1-123-661-00	s	ELECT	100	20%	6.3V
C438	1-123-661-00	s	ELECT	100	20%	6.3V
C443	1-124-462-00	s	ELECT	10	20%	16V
C453	1-126-103-11	s	ELECT	470	20%	16V
C457	1-123-661-00	s	ELECT	100	20%	6.3V
C459	1-124-462-00	s	ELECT	10	20%	16V
C461	1-124-462-00	s	ELECT	10	20%	16V
C464	1-126-103-11	s	ELECT	470	20%	16V
C466	1-126-103-11	s	ELECT	470	20%	16V
C468	1-123-661-00	s	ELECT	100	20%	6.3V
C470	1-123-661-00	s	ELECT	100	20%	6.3V

Ref.No. Parts No. SP Description

CN105 1-506-748-11 s DIN 96P

CV1	1-141-260-00	s	TRIMMER, CERAMIC 50pF
CV2	1-141-260-00	s	TRIMMER, CERAMIC 50pF
CV3	1-141-245-00	s	TRIMMER, CERAMIC 30pF

D1	8-719-110-08	s	RD8.2ES-B2
D2	8-719-907-19	s	FC52M
D3	8-719-907-19	s	FC52M
D4	8-719-101-97	s	1SS97-1
D5	8-719-101-97	s	1SS97-1

D6	8-719-101-97	s	1SS97-1
D7	8-719-101-97	s	1SS97-1
D8	8-719-100-05	s	1S2837
D9	8-719-100-05	s	1S2837
D10	8-719-110-08	s	RD8.2ES-B2

D11	8-719-109-89	s	RD5.6ESB2
D12	8-719-110-08	s	RD8.2ES-B2
D13	8-719-109-89	s	RD5.6ESB2
D14	8-719-110-22	s	RD11ESB2
D401	8-719-100-05	s	1S2837

D402	8-719-100-05	s	1S2837
D403	8-719-100-05	s	1S2837

DL1	1-415-447-21	s	2H
DL2	1-415-348-11	s	140/280ns
DL3	1-415-348-11	s	140/280ns
DL4	1-415-309-00	s	350ns
DL5	1-415-309-00	s	350ns

FB100	1-535-178-00	s	FERRITE BEAD
FB101	1-535-178-00	s	FERRITE BEAD

IC1	8-752-030-81	s	CXA1040M (SONY)
IC2	8-752-030-80	s	CXA1039M (SONY)
IC3	8-759-208-11	s	TC4053BFHB (TOSHIBA)
IC4	8-759-907-81	s	SN74LS221NS (TI)
IC5	8-759-907-81	s	SN74LS221NS (TI)

IC6	8-759-907-81	s	SN74LS221NS (TI)
IC7	8-759-205-06	s	TC74HC74F (TOSHIBA)
IC8	8-759-201-47	s	TA7357AP (TOSHIBA)
IC9	8-759-700-95	s	NJM1496M (JRC)
IC10	8-759-112-53	s	uPC1663G (NEC)

IC11	8-759-112-53	s	uPC1663G (NEC)
IC12	8-759-908-16	s	TLO72CPS (TI)
IC13	8-759-400-06	s	AN608P (MATSUSHITA)
IC14	8-759-400-06	s	AN608P (MATSUSHITA)
IC15	8-759-402-33	s	AN607P (MATSUSHITA)

IC16	8-752-201-30	s	CX22013 (SONY)
IC17	8-752-030-30	s	CXA1020P (SONY)
IC18	8-759-402-33	s	AN607P (MATSUSHITA)
IC19	8-759-632-99	s	M5215TL (MITSUBISHI)
IC20	8-759-969-13	s	SN16913P (TI)

IC21	8-759-932-54	s	TC4066BFHB (TOSHIBA)
IC22	8-759-632-99	s	M5215TL (MITSUBISHI)
IC23	8-759-908-17	s	TLO82CPS (TI)
IC24	1-808-743-11	s	CIRCUIT UNIT, VA
IC25	8-759-932-54	s	TC4066BFHB (TOSHIBA)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
IC26	8-752-030-80	s	CXA1039M (SONY)
IC401	8-759-982-34	s	RC78M09FA (RAYTHEON)
IC402	8-759-708-05	s	NJM78L05A (JRC)
IC403	8-759-982-52	s	RC78M05FA (RAYTHEON)

L1	1-410-473-11	s	MICRO 18
L2	1-410-482-31	s	MICRO 100
L4	1-410-462-11	s	MICRO 2.2
L7	1-410-482-31	s	MICRO 100
L8	1-410-468-11	s	MICRO 6.8
L9	1-410-462-11	s	MICRO 2.2
L10	1-410-462-11	s	MICRO 2.2
L100	1-459-155-00	s	45 (WITH CORE)
L101	1-459-155-00	s	45 (WITH CORE)
L103	1-459-155-00	s	45 (WITH CORE)

L104	1-410-482-31	s	MICRO 100
L105	1-410-482-31	s	MICRO 100
L107	1-410-482-31	s	MICRO 100
L108	1-410-482-31	s	MICRO 100
L109	1-410-482-31	s	MICRO 100

L110	1-410-482-31	s	MICRO 100
L111	1-410-482-31	s	MICRO 100
L112	1-410-482-31	s	MICRO 100
L113	1-410-482-31	s	MICRO 100
L114	1-410-482-31	s	MICRO 100

L120	1-410-482-31	s	MICRO 100
L122	1-410-482-31	s	MICRO 100
L123	1-410-482-31	s	MICRO 100
L124	1-410-482-31	s	MICRO 100
L125	1-410-482-31	s	MICRO 100

L126	1-410-482-31	s	MICRO 100
L127	1-410-482-31	s	MICRO 100

Q1	8-729-271-23	s	2SC2712
Q2	8-729-271-23	s	2SC2712
Q3	8-729-271-23	s	2SC2712
Q4	8-729-271-23	s	2SC2712
Q5	8-729-216-21	s	2SA1162Y

Q6	8-729-216-21	s	2SA1162Y
Q7	8-729-216-21	s	2SA1162Y
Q8	8-729-175-72	s	2SC2757
Q9	8-729-175-72	s	2SC2757
Q10	8-729-122-63	s	2SA1226

Q11	8-729-175-72	s	2SC2757
Q12	8-729-122-63	s	2SA1226
Q13	8-729-105-73	s	2SK523-L2
Q14	8-729-122-63	s	2SA1226
Q15	8-729-122-63	s	2SA1226

Q16	8-729-175-72	s	2SC2757
Q17	8-729-175-72	s	2SC2757
Q18	8-729-175-72	s	2SC2757
Q19	8-729-122-63	s	2SA1226
Q20	8-729-175-72	s	2SC2757

Q21	8-729-122-63	s	2SA1226
Q22	8-729-105-73	s	2SK523-L2
Q23	8-729-122-63	s	2SA1226
Q24	8-729-122-63	s	2SA1226
Q25	8-729-216-21	s	2SA1162Y

Ref.No.	Parts No.	SP	Description
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Q26	8-729-271-23	s	2SC2712
Q27	8-729-271-23	s	2SC2712
Q28	8-729-216-21	s	2SA1162Y
Q29	8-729-271-23	s	2SC2712
Q30	8-729-271-23	s	2SC2712

Q31	8-729-216-21	s	2SA1162Y
Q32	8-729-271-23	s	2SC2712
Q33	8-729-271-23	s	2SC2712
Q34	8-729-216-21	s	2SA1162Y
Q35	8-729-109-42	s	2SK94

Q36	8-729-109-42	s	2SK94
Q37	8-729-109-42	s	2SK94
Q41	8-729-122-63	s	2SA1226
Q42	8-729-266-92	s	2SC2669
Q50	8-729-271-23	s	2SC2712

Q51	8-729-271-23	s	2SC2712
Q52	8-729-271-23	s	2SC2712
Q53	8-729-271-23	s	2SC2712
Q54	8-729-190-12	s	2SC2901
Q55	8-729-271-23	s	2SC2712

Q56	8-729-271-23	s	2SC2712
Q57	8-729-216-21	s	2SA1162Y
Q58	8-729-271-23	s	2SC2712
Q59	8-729-216-21	s	2SA1162Y
Q60	8-729-271-23	s	2SC2712

Q61	8-729-216-21	s	2SA1162Y
Q62	8-729-271-23	s	2SC2712
Q63	8-729-216-21	s	2SA1162Y
Q64	8-729-271-23	s	2SC2712
Q65	8-729-271-23	s	2SC2712

Q66	8-729-271-23	s	2SC2712
Q67	8-729-271-23	s	2SC2712
Q68	8-729-216-21	s	2SA1162Y
Q69	8-729-271-23	s	2SC2712
Q70	8-729-271-23	s	2SC2712

Q71	8-729-271-23	s	2SC2712
Q73	8-729-216-21	s	2SA1162Y
5) Q78	8-729-202-38	s	2SC3326N
6) Q78	8-729-102-07	s	2SC2223-F13
Q79	8-729-901-01	s	DTC144EK

R1	1-216-639-11	s	METAL CHIP 330	0.50%	1/10W
R2	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W
R14	1-216-675-11	s	METAL CHIP 10k	0.50%	1/10W
R15	1-216-673-11	s	METAL CHIP 8.2k	0.50%	1/10W
R16	1-216-666-11	s	METAL CHIP 4.3k	0.50%	1/10W

R17	1-216-688-11	s	METAL CHIP 36k	0.50%	1/10W
R18	1-216-669-11	s	METAL CHIP 5.6k	0.50%	1/10W
R47	1-216-660-11	s	METAL CHIP 2.4k	0.50%	1/10W
R48	1-216-660-11	s	METAL CHIP 2.4k	0.50%	1/10W
R55	1-216-624-11	s	METAL CHIP 75	0.50%	1/10W

R65	1-216-620-11	s	METAL CHIP 51	0.50%	1/10W
R66	1-216-620-11	s	METAL CHIP 51	0.50%	1/10W
R67	1-216-748-11	s	METAL CHIP 39k	5%	1/10W
R91	1-216-672-11	s	METAL CHIP 7.5k	0.50%	1/10W
R101	1-216-620-11	s	METAL CHIP 51	0.50%	1/10W

R102	1-216-620-11	s	METAL CHIP 51	0.50%	1/10W
R103	1-216-748-11	s	METAL CHIP 39k	5%	1/10W
R132	1-216-647-11	s	METAL CHIP 680	0.50%	1/10W
R159	1-216-667-11	s	METAL CHIP 12k	0.50%	1/10W
R160	1-216-680-11	s	METAL CHIP 16k	0.50%	1/10W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
R200	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R201	1-216-662-11	s	METAL CHIP 3k 0.50% 1/10W
R202	1-216-662-11	s	METAL CHIP 3k 0.50% 1/10W
R206	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R207	1-216-662-11	s	METAL CHIP 3k 0.50% 1/10W
R208	1-216-662-11	s	METAL CHIP 3k 0.50% 1/10W
R211	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R212	1-216-662-11	s	METAL CHIP 3k 0.50% 1/10W
R213	1-216-662-11	s	METAL CHIP 3k 0.50% 1/10W
R217	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W
R218	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W
R220	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W
R221	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W
R222	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
R252	1-216-634-11	s	METAL CHIP 200 0.50% 1/10W
R253	1-216-634-11	s	METAL CHIP 200 0.50% 1/10W
R258	1-216-639-11	s	METAL CHIP 330 0.50% 1/10W
R259	1-216-639-11	s	METAL CHIP 330 0.50% 1/10W
R264	1-216-634-11	s	METAL CHIP 200 0.50% 1/10W
R265	1-216-634-11	s	METAL CHIP 200 0.50% 1/10W
R268	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R272	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
R279	1-216-687-11	s	METAL CHIP 33k 0.50% 1/10W
R280	1-216-687-11	s	METAL CHIP 33k 0.50% 1/10W
R281	1-216-682-11	s	METAL CHIP 20k 0.50% 1/10W
R283	1-216-650-11	s	METAL CHIP 910 0.50% 1/10W
R284	1-216-653-11	s	METAL CHIP 1.2k 0.50% 1/10W
R285	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R288	1-216-644-11	s	METAL CHIP 510 0.50% 1/10W
R300	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R301	1-216-685-11	s	METAL CHIP 27k 0.50% 1/10W
R303	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R305	1-216-631-11	s	METAL CHIP 150 0.50% 1/10W
R307	1-216-637-11	s	METAL CHIP 270 0.50% 1/10W
R309	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W
R310	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W
R315	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
R316	1-216-644-11	s	METAL CHIP 510 0.50% 1/10W
RV1	1-230-838-11	s	VAR, METAL FILM 200
RV2	1-237-516-21	s	VAR, CERMET 2k
RV3	1-237-516-21	s	VAR, CERMET 2k
RV4	1-237-520-21	s	VAR, CERMET 50k
RV5	1-237-516-21	s	VAR, CERMET 2k
RV6	1-237-516-21	s	VAR, CERMET 2k
RV7	1-237-516-21	s	VAR, CERMET 2k
RV8	1-237-516-21	s	VAR, CERMET 2k
RV9	1-237-515-21	s	VAR, CERMET 1k
RV10	1-237-515-21	s	VAR, CERMET 1k
RV11	1-237-517-21	s	VAR, CERMET 5k
RV12	1-237-515-21	s	VAR, CERMET 1k
RV13	1-237-515-21	s	VAR, CERMET 1k
RV15	1-237-515-21	s	VAR, CERMET 1k
RV16	1-237-521-21	s	VAR, CERMET 100k
RV20	1-237-521-21	s	VAR, CERMET 100k
S1	1-570-857-11	s	SLIDE

Ref.No.	Parts No.	SP	Description
SP1	1-560-733-00	s	PIN, SHORT
SP2	1-560-733-00	s	PIN, SHORT
SP3	1-560-733-00	s	PIN, SHORT
SP4	1-560-733-00	s	PIN, SHORT
SP5	1-566-385-11	s	PIN 2P
SP6	1-566-385-11	s	PIN 2P
SP7	1-566-385-11	s	PIN 2P
SP8	1-566-385-11	s	PIN 2P
SS1	1-561-832-00	s	SOCKET, SHORT
SS3	1-561-832-00	s	SOCKET, SHORT
SS5	1-565-413-11	s	RECEPTACLE 2P
SS7	1-565-413-11	s	RECEPTACLE 2P
TH2	1-800-202-XX	s	S-10K
TH3	1-800-200-00	s	S-3K
X1	1-577-338-11	s	VIBRATOR 30.00MHz

DEC-42 BOARD

This board includes the CF-36 board.

A-6727-002-A o MOUNTED CIRCUIT BOARD, DEC-42

C5	1-124-584-00	s	ELECT	100	20%	10V
C9	1-162-198-31	s	CERAMIC	8.2pF		50V
C12	1-124-584-00	s	ELECT	100	20%	10V
C22	1-162-198-31	s	CERAMIC	8.2pF		50V
C100	1-124-475-11	s	ELECT	470	20%	16V
C101	1-124-475-11	s	ELECT	470	20%	16V
C102	1-124-475-11	s	ELECT	470	20%	16V
C103	1-124-475-11	s	ELECT	470	20%	16V
C106	1-124-475-11	s	ELECT	470	20%	16V
C112	1-124-475-11	s	ELECT	470	20%	16V
C114	1-124-475-11	s	ELECT	470	20%	16V
C207	1-163-094-00	s	CERAMIC CHIP	11pF	5%	50V
C215	1-163-094-00	s	CERAMIC CHIP	11pF	5%	50V
C248	1-163-103-00	s	CERAMIC CHIP	27pF	5%	50V
C250	1-163-037-11	s	CERAMIC CHIP	0.022	10%	25V
C251	1-163-037-11	s	CERAMIC CHIP	0.022	10%	25V
C300	1-124-475-11	s	ELECT	470	20%	16V
C310	1-126-157-11	s	ELECT	10	20%	16V
C321	1-126-157-11	s	ELECT	10	20%	16V
C326	1-126-157-11	s	ELECT	10	20%	16V
C327	1-126-157-11	s	ELECT	10	20%	16V
C416	1-126-157-11	s	ELECT	10	20%	16V
C419	1-162-882-00	s	CERAMIC	180pF	5%	50V
C420	1-126-157-11	s	ELECT	10	20%	16V
C423	1-161-463-00	s	CERAMIC	220pF	1%	50V
C429	1-126-157-11	s	ELECT	10	20%	16V
C502	1-126-176-11	s	ELECT	220	20%	6.3V
C504	1-126-176-11	s	ELECT	220	20%	6.3V
C515	1-124-473-11	s	ELECT	1000	20%	10V
C524	1-126-176-11	s	ELECT	220	20%	6.3V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

C600 1-126-157-11 s ELECT 10 20% 16V
 C603 1-162-888-11 s CERAMIC 560pF 5% 50V
 C622 1-135-145-11 s TANTAL 0.47 10% 25V
 C640 1-126-157-11 s ELECT 10 20% 16V
 C643 1-162-888-11 s CERAMIC 560pF 5% 50V

C666 1-135-145-11 s TANTAL 0.47 10% 25V
 C673 1-135-093-21 s TANTAL 10 10% 16V
 C693 1-135-070-00 s TANTAL 0.1 10% 35V
 C700 1-126-176-11 s ELECT 220 20% 6.3V
 C705 1-126-157-11 s ELECT 10 20% 16V

C719 1-126-157-11 s ELECT 10 20% 16V
 C721 1-126-157-11 s ELECT 10 20% 16V
 C723 1-126-157-11 s ELECT 10 20% 16V
 C725 1-126-157-11 s ELECT 10 20% 16V
 C729 1-126-157-11 s ELECT 10 20% 16V

C731 1-124-584-00 s ELECT 100 20% 10V
 C744 1-124-584-00 s ELECT 100 20% 10V
 C804 1-162-637-11 s CERAMIC CHIP 0.47 16V
 C807 1-163-037-11 s CERAMIC CHIP 0.022 10% 25V
 C808 1-164-004-11 s CERAMIC CHIP 0.1 10% 25V

C809 1-126-157-11 s ELECT 10 20% 16V

CN112 1-506-746-11 s DIN 48P
 CN113 1-506-748-11 s DIN 96P
 CN501 1-564-988-11 s 14P
 CN502 1-565-060-11 s 16P

CV401 1-141-260-11 s TRIMMER 50pF
 CV402 1-141-227-21 s TRIMMER 20pF
 CV403 1-141-227-21 s TRIMMER 20pF

D101 8-719-110-22 s RD11ES-B2
 D201 8-759-908-15 s TL431CLP
 D202 8-759-908-15 s TL431CLP
 D203 8-719-105-58 s RD3.9M-B2
 D204 8-719-101-23 s 1SS123

D400 8-719-104-10 s 1SS99
 D401 8-719-981-01 s ERA81-004
 D505 8-719-100-05 s 1S2837
 D506 8-719-100-05 s 1S2837
 D509 8-719-100-05 s 1S2837

D510 8-719-104-10 s 1SS99
 D511 8-719-104-10 s 1SS99
 D700 8-719-100-05 s 1S2837
 D802 8-719-915-30 s FC53M
 D804 8-719-100-05 s 1S2837

D805 8-719-105-48 s RD3.3M-B2
 D807 8-719-100-05 s 1S2837
 D808 8-719-104-31 s 1S2838
 D809 8-719-104-31 s 1S2838

FB500 1-535-178-00 s FERRITE BEAD
 FB701 1-535-178-00 s FERRITE BEAD

FL1 1-235-758-11 s LOW-PASS 1.5MHz
 FL2 1-235-758-11 s LOW-PASS 1.5MHz
 FL201 1-236-230-11 s LOW-PASS 2.0MHz
 FL202 1-236-230-11 s LOW-PASS 2.0MHz
 FL203 1-236-162-11 s LOW-PASS

Ref.No. Parts No. SP Description

FL401 1-235-759-11 s LOW-PASS 5.0MHz

IC1 8-759-700-95 s NJM1496M (JRC)
 IC2 8-759-208-09 s TC4052BFHB (TOSHIBA)
 IC3 8-759-700-95 s NJM1496M (JRC)
 IC4 8-759-908-92 s TL084CNS (TI)
 IC5 8-759-908-92 s TL084CNS (TI)

IC6 8-759-101-12 s uPC311G2 (NEC)
 IC7 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC8 8-759-930-56 s SN74LS163ANS (TI)
 IC9 8-759-012-02 s MC10HL24M (MOTOROLA)
 IC10 8-759-012-03 s MC10HL31M (MOTOROLA)

IC11 8-759-011-98 s MC10HL13M (MOTOROLA)
 IC101 8-759-708-09 s NJM78L09A (JRC)
 IC200 8-759-908-18 s TL607CPS (TI)
 IC201 8-752-006-13 s CX20061 (SONY)
 IC202 8-752-006-13 s CX20061 (SONY)

IC203 8-759-908-18 s TL607CPS (TI)
 IC204 8-752-006-13 s CX20061 (SONY)
 IC205 8-752-006-13 s CX20061 (SONY)
 IC206 8-749-901-45 s SBX4002-01 (NEC)
 IC207 8-749-901-45 s SBX4002-01 (NEC)

IC208 8-752-032-55 s CXA1096M (SONY)
 IC209 8-752-032-55 s CXA1096M (SONY)
 IC210 8-752-329-28 s CXD1151Q (SONY)
 IC211 8-759-508-58 s MB40778H (FUJITSU)
 IC212 8-759-908-17 s TL082CPS (TI)

IC213 8-759-204-98 s TC74HC08F (TOSHIBA)
 IC214 8-759-908-18 s TL607CPS (TI)
 IC400 8-752-006-13 s CX20061 (SONY)
 IC401 8-752-006-13 s CX20061 (SONY)
 IC402 8-759-208-11 s TC4053BFHB (TOSHIBA)

IC403 1-808-743-11 s CIRCUIT UNIT, VA
 IC404 8-759-908-92 s TL084CNS (TI)
 IC405 8-759-208-09 s TC4052BFHB (TOSHIBA)
 IC406 1-808-743-11 s CIRCUIT UNIT, VA
 IC407 8-759-700-65 s NJM79L05A (JRC)

IC408 8-759-700-65 s NJM79L05A (JRC)
 IC409 8-759-708-09 s NJM78L09A (JRC)
 IC410 8-759-708-09 s NJM78L09A (JRC)
 IC411 8-752-015-81 s CX20158 (SONY)
 IC500 8-759-201-47 s TA7357AF (TOSHIBA)

IC502 8-759-920-14 s S-8053ALR (SEIKO I AND E)
 IC509 8-752-037-75 s CX7993A (SONY)
 IC510 8-759-941-27 s MB4002PF (FUJITSU)
 IC511 8-759-632-99 s M5215TL (MITSUBISHI)
 IC512 8-759-101-12 s uPC311G2 (NEC)

IC513 8-759-201-47 s TA7357AF (TOSHIBA)
 IC514 8-759-907-81 s SN74LS221NS (TI)
 IC515 8-759-941-27 s MB4002PF (FUJITSU)
 IC522 8-759-907-81 s SN74LS221NS (TI)
 IC523 8-759-907-81 s SN74LS221NS (TI)

IC524 8-759-907-81 s SN74LS221NS (TI)
 IC525 8-759-902-88 s SN74LS123NS (TI)
 IC526 8-759-205-06 s TC74HC74F (TOSHIBA)
 IC533 8-759-907-81 s SN74LS221NS (TI)
 IC534 8-759-907-81 s SN74LS221NS (TI)

IC541 8-759-205-05 s TC74HC32F (TOSHIBA)
 IC542 8-759-207-74 s TC4030BFHB (TOSHIBA)
 IC543 8-759-204-94 s TC74HC00F (TOSHIBA)
 IC544 8-759-204-94 s TC74HC00F (TOSHIBA)
 IC545 8-759-204-94 s TC74HC00F (TOSHIBA)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

IC546 8-759-204-98 s TC74HC08F (TOSHIBA)
 IC547 8-759-205-05 s TC74HC32F (TOSHIBA)
 IC548 8-759-204-98 s TC74HC08F (TOSHIBA)
 IC550 8-759-204-98 s TC74HC08F (TOSHIBA)
 IC700 8-759-708-09 s NJM78L09A (JRC)

IC801 8-749-901-21 s BX1461 (SONY)
 IC802 8-759-908-17 s TL082CPS (TI)
 IC803 8-759-012-13 s MC10H125M (MOTOROLA)
 IC804 8-759-230-23 s CXD1045AQ (SONY)
 IC805 8-759-941-17 s SN74L06NS (TI)

IC901 8-759-907-81 s SN74LS221NS (TI)
 IC902 8-759-205-06 s TC74HC74F (TOSHIBA)

L100 1-412-533-11 s MICRO 47
 L101 1-412-533-11 s MICRO 47
 L102 1-412-533-11 s MICRO 47
 L103 1-412-533-11 s MICRO 47
 L105 1-410-482-31 s MICRO 100

L106 1-410-482-31 s MICRO 100
 L109 1-410-482-31 s MICRO 100
 L110 1-412-533-11 s MICRO 47
 L115 1-410-482-31 s MICRO 100
 L117 1-410-482-31 s MICRO 100

L118 1-410-482-31 s MICRO 100
 L201 1-410-466-41 s MICRO 4.7
 L202 1-410-466-41 s MICRO 4.7
 L203 1-410-471-11 s MICRO 12
 L204 1-410-471-11 s MICRO 12

L300 1-410-482-31 s MICRO 100
 L301 1-410-482-31 s MICRO 100
 L302 1-410-482-31 s MICRO 100
 L306 1-410-482-31 s MICRO 100
 L307 1-410-482-31 s MICRO 100

L308 1-410-482-31 s MICRO 100
 L309 1-410-482-31 s MICRO 100
 L310 1-410-482-31 s MICRO 100
 L313 1-410-482-31 s MICRO 100
 L501 1-410-482-31 s MICRO 100

L502 1-410-482-31 s MICRO 100
 L505 1-410-482-31 s MICRO 100
 L506 1-410-482-31 s MICRO 100
 L507 1-410-482-31 s MICRO 100
 L508 1-410-482-31 s MICRO 100

L511 1-410-482-31 s MICRO 100
 L600 1-410-478-11 s MICRO 47
 L601 1-410-478-11 s MICRO 47
 L700 1-412-533-11 s MICRO 47
 L701 1-410-482-31 s MICRO 100

L703 1-410-482-31 s MICRO 100
 L705 1-410-482-31 s MICRO 100
 L706 1-410-482-31 s MICRO 100
 L707 1-410-482-31 s MICRO 100
 L801 1-410-459-11 s MICRO 1.2

LV400 1-407-574-00 s VAR 68
 LV401 1-407-575-00 s VAR 100
 LV801 1-407-563-00 s VAR 1.0

Ref.No. Parts No. SP Description

Q1 8-729-271-23 s 2SC2712
 Q2 8-729-271-23 s 2SC2712
 Q3 8-729-271-23 s 2SC2712
 Q4 8-729-271-23 s 2SC2712
 Q6 8-729-216-21 s 2SA1162Y

Q7 8-729-216-21 s 2SA1162Y
 Q8 8-729-109-42 s 2SK94
 Q9 8-729-203-23 s 2SK389-V
 Q10 8-729-271-23 s 2SC2712
 Q11 8-729-271-23 s 2SC2712

Q12 8-729-271-23 s 2SC2712
 Q14 8-729-216-21 s 2SA1162Y
 Q15 8-729-216-21 s 2SA1162Y
 Q16 8-729-109-42 s 2SK94
 Q17 8-729-203-23 s 2SK389-V

Q18 8-729-122-63 s 2SA1226
 Q200 8-729-271-23 s 2SC2712
 Q201 8-729-271-23 s 2SC2712
 Q202 8-729-271-23 s 2SC2712
 Q203 8-729-271-23 s 2SC2712

Q204 8-729-216-21 s 2SA1162Y
 Q208 8-729-271-23 s 2SC2712
 Q209 8-729-271-23 s 2SC2712
 Q210 8-729-271-23 s 2SC2712
 Q211 8-729-271-23 s 2SC2712

Q212 8-729-216-21 s 2SA1162Y
 Q219 8-729-177-34 s 2SD773-5
 Q220 8-729-177-34 s 2SD773-5
 Q221 8-729-106-60 s 2SB1115A
 Q222 8-729-271-23 s 2SC2712

Q223 8-729-109-42 s 2SK94
 Q224 8-729-271-23 s 2SC2712
 Q225 8-729-271-23 s 2SC2712
 Q226 8-729-271-23 s 2SC2712
 Q227 8-729-216-21 s 2SA1162Y

11) Q228 8-729-216-22 s 2SA1162
 11) Q229 8-729-271-23 s 2SC2712
 11) Q230 8-729-271-23 s 2SC2712
 Q400 8-729-271-23 s 2SC2712
 Q401 8-729-271-23 s 2SC2712

Q402 8-729-216-21 s 2SA1162Y
 Q403 8-729-271-23 s 2SC2712
 Q404 8-729-271-23 s 2SC2712
 Q405 8-729-271-23 s 2SC2712
 Q406 8-729-122-63 s 2SA1226

Q407 8-729-109-42 s 2SK94
 Q408 8-729-203-23 s 2SK389-V
 Q409 8-729-203-23 s 2SK389-V
 Q410 8-729-271-23 s 2SC2712
 Q411 8-729-271-23 s 2SC2712

Q412 8-729-271-23 s 2SC2712
 Q413 8-729-271-23 s 2SC2712
 Q414 8-729-271-23 s 2SC2712
 Q415 8-729-271-23 s 2SC2712
 Q416 8-729-190-12 s 2SC2901

Q417 8-729-271-23 s 2SC2712
 Q418 8-729-190-12 s 2SC2901
 Q419 8-729-271-23 s 2SC2712
 Q420 8-729-271-23 s 2SC2712
 Q421 8-729-271-23 s 2SC2712

Q422 8-729-271-23 s 2SC2712
 Q423 8-729-271-23 s 2SC2712
 Q424 8-729-271-23 s 2SC2712
 Q425 8-729-271-23 s 2SC2712
 Q426 8-729-271-23 s 2SC2712

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description			
Q427	8-729-271-23	s	2SC2712			
Q428	8-729-271-23	s	2SC2712			
Q429	8-729-202-38	s	2SC3326N			
Q430	8-729-271-23	s	2SC2712			
Q431	8-729-202-38	s	2SC3326N			
Q500	8-729-102-07	s	2SC2223-F13			
Q501	8-729-271-23	s	2SC2712			
Q502	8-729-102-07	s	2SC2223-F13			
Q503	8-729-901-01	s	DTC144EK			
Q801	8-729-175-72	s	2SC2757-T33			
Q802	8-729-901-01	s	DTC144EK			
R1	1-216-650-11	s	METAL CHIP 910	0.50Z	1/10W	
R3	1-216-626-11	s	METAL CHIP 91	0.50Z	1/10W	
R16	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R18	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R47	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R49	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R97	1-216-667-11	s	METAL CHIP 4.7k	0.50Z	1/10W	
R99	1-216-667-11	s	METAL CHIP 4.7k	0.50Z	1/10W	
R209	1-216-643-11	s	METAL CHIP 470	0.50Z	1/10W	
R210	1-216-643-11	s	METAL CHIP 470	0.50Z	1/10W	
R230	1-216-643-11	s	METAL CHIP 470	0.50Z	1/10W	
R231	1-216-643-11	s	METAL CHIP 470	0.50Z	1/10W	
R234	1-216-643-11	s	METAL CHIP 470	0.50Z	1/10W	
R240	1-216-649-11	s	METAL CHIP 820	0.50Z	1/10W	
R241	1-216-649-11	s	METAL CHIP 820	0.50Z	1/10W	
R244	1-216-679-11	s	METAL CHIP 15k	0.50Z	1/10W	
R245	1-216-679-11	s	METAL CHIP 15k	0.50Z	1/10W	
R250	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R251	1-216-677-11	s	METAL CHIP 12k	0.50Z	1/10W	
R253	1-216-653-11	s	METAL CHIP 1.2k	0.50Z	1/10W	
R258	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R259	1-216-677-11	s	METAL CHIP 12k	0.50Z	1/10W	
R261	1-216-653-11	s	METAL CHIP 1.2k	0.50Z	1/10W	
R266	1-249-484-11	s	CARBON 6.8	5Z	1/2W	
R269	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R270	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R271	1-216-663-11	s	METAL CHIP 3.3k	0.50Z	1/10W	
R272	1-216-669-11	s	METAL CHIP 5.6k	0.50Z	1/10W	
R274	1-216-660-11	s	METAL CHIP 2.4k	0.50Z	1/10W	
R275	1-216-670-11	s	METAL CHIP 6.2k	0.50Z	1/10W	
R276	1-247-735-11	s	CARBON 47	5Z	1/2W	
R277	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R278	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R279	1-216-662-11	s	METAL CHIP 3k	0.50Z	1/10W	
R280	1-216-677-11	s	METAL CHIP 12k	0.50Z	1/10W	
R282	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R283	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R285	1-216-667-11	s	METAL CHIP 4.7k	0.50Z	1/10W	
R286	1-216-659-11	s	METAL CHIP 2.2k	0.50Z	1/10W	
R288	1-216-655-11	s	METAL CHIP 1.5k	0.50Z	1/10W	
11) R294	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
11) R295	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R298	1-216-679-11	s	METAL CHIP 15k	0.50Z	1/10W	
R310	1-216-660-11	s	METAL CHIP 2.4k	0.50Z	1/10W	
R311	1-216-670-11	s	METAL CHIP 6.2k	0.50Z	1/10W	
R312	1-216-659-11	s	METAL CHIP 2.2k	0.50Z	1/10W	
R313	1-216-659-11	s	METAL CHIP 2.2k	0.50Z	1/10W	
R406	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R407	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
5) R433	1-216-640-11	s	METAL CHIP 360	0.50Z	1/10W	

Ref.No.	Parts No.	SP	Description		
6) R433	1-216-643-11	s	METAL CHIP 470	0.50%	1/10W
R444	1-216-658-11	s	METAL CHIP 2k	0.50%	1/10W
R445	1-216-658-11	s	METAL CHIP 2k	0.50%	1/10W
R446	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W
R449	1-216-658-11	s	METAL CHIP 2K	0.50%	1/10W
R450	1-216-658-11	s	METAL CHIP 2k	0.50%	1/10W
R451	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W
R460	1-216-642-11	s	METAL CHIP 430	0.50%	1/10W
R477	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W
R484	1-216-689-11	s	METAL CHIP 39k	0.50%	1/10W
R485	1-216-689-11	s	METAL CHIP 39k	0.50%	1/10W
R506	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W
R507	1-216-661-11	s	METAL CHIP 2.7k	0.50%	1/10W
R560	1-216-667-11	s	METAL CHIP 4.7k	0.50%	1/10W
R561	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W
R563	1-216-665-11	s	METAL CHIP 3.9k	0.50%	1/10W
R570	1-216-679-11	s	METAL CHIP 15k	0.50%	1/10W
R572	1-216-681-11	s	METAL CHIP 18k	0.50%	1/10W
R623	1-216-677-11	s	METAL CHIP 12k	0.50%	1/10W
R616	1-216-681-11	s	METAL CHIP 18k	0.50%	1/10W
R632	1-216-684-11	s	METAL CHIP 24k	0.50%	1/10W
R636	1-216-657-11	s	METAL CHIP 1.8k	0.50%	1/10W
R801	1-216-682-11	s	METAL CHIP 20k	0.50%	1/10W
R803	1-216-677-11	s	METAL CHIP 12k	0.50%	1/10W
R804	1-216-667-11	s	METAL CHIP 4.7k	0.50%	1/10W
RV1	1-237-519-11	s	VAR, CERMET 20k		
RV2	1-237-515-11	s	VAR, CERMET 1k		
RV3	1-237-519-11	s	VAR, CERMET 20k		
RV4	1-237-519-11	s	VAR, CERMET 20k		
RV5	1-237-515-11	s	VAR, CERMET 1k		
RV6	1-237-519-11	s	VAR, CERMET 20k		
RV7	1-237-517-11	s	VAR, CERMET 5k		
RV8	1-237-517-11	s	VAR, CERMET 5k		
RV200	1-237-515-11	s	VAR, CERMET 1k		
RV201	1-237-515-11	s	VAR, CERMET 1k		
RV202	1-237-515-11	s	VAR, CERMET 1k		
RV203	1-237-514-11	s	VAR, CERMET 500		
RV204	1-237-514-11	s	VAR, CERMET 500		
RV205	1-237-515-11	s	VAR, CERMET 1k		
RV206	1-237-516-11	s	VAR, CERMET 2k		
RV207	1-237-516-21	s	VAR, CERMET 2k		
RV208	1-237-515-21	s	VAR, CERMET 1k		
RV209	1-237-515-21	s	VAR, CERMET 1k		
RV400	1-237-517-11	s	VAR, CERMET 5k		
RV401	1-237-514-11	s	VAR, CERMET 500		
RV402	1-237-516-11	s	VAR, CERMET 2k		
RV403	1-237-518-11	s	VAR, CERMET 10k		
RV404	1-237-517-11	s	VAR, CERMET 5k		
RV405	1-237-517-11	s	VAR, CERMET 5k		
RV406	1-237-512-11	s	VAR, CERMET 100		
RV407	1-237-513-21	s	VAR, CERMET 200		
RV408	1-237-519-11	s	VAR, CERMET 20k		
RV410	1-237-524-11	s	VAR, CERMET 1M		
RV411	1-237-519-11	s	VAR, CERMET 20k		
RV412	1-237-515-11	s	VAR, CERMET 1k		
RV502	1-237-519-11	s	VAR, CERMET 20k		
RV503	1-237-519-11	s	VAR, CERMET 20k		
RV504	1-237-518-21	s	VAR, CERMET 10k		
RV505	1-237-519-11	s	VAR, CERMET 20k		
RV511	1-237-518-21	s	VAR, CERMET 10k		
RV512	1-237-518-21	s	VAR, CERMET 10k		

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

S500 1-570-857-11 s SLIDE

TH1 1-800-202-XX s S-10K

TH2 1-800-202-XX s S-10K

X1 1-577-089-11 s OSCILLATOR 14.31818MHz

X501 1-567-864-11 s VIBRATOR 10.738635MHz

DM-56 BOARD

A-6711-808-A o MOUNTED CIRCUIT BOARD, DM-56

C25	1-163-104-00	s	CERAMIC	30pF	5%	50V
C31	1-107-339-11	s	MICA	630.8	0.25%	100V
C49	1-107-081-00	s	MICA	68pF	5%	50V
C71	1-135-101-21	s	ELECT	22	10%	6.3V
C72	1-135-093-21	s	TANTAL	10	10%	10V
C77	1-163-095-00	s	CERAMIC	12pF	5%	50V
C78	1-163-095-00	s	CERAMIC	12pF	5%	50V
C79	1-163-088-00	s	CERAMIC	5pF		50V
C93	1-163-096-00	s	CERAMIC	13pF	5%	50V
C104	1-163-102-00	s	CERAMIC	24pF	5%	50V
C105	1-163-094-00	s	CERAMIC	11pF	5%	50V
C107	1-135-093-21	s	TANTAL	10	10%	10V
C114	1-163-098-00	s	CERAMIC	16pF	5%	50V
C124	1-135-093-21	s	TANTAL	10	10%	10V
3) C157	1-163-098-00	s	CERAMIC	16pF	5%	50V
4) C157	1-163-102-00	s	CERAMIC	24pF	5%	50V
C161	1-163-111-00	s	CERAMIC	56pF	5%	50V
C178	1-162-880-11	s	CERAMIC	120pF	5%	50V
C184	1-163-103-00	s	CERAMIC	27pF	5%	50V
C185	1-163-088-00	s	CERAMIC	5pF		50V
C202	1-163-103-00	s	CERAMIC	27pF	5%	50V
C205	1-163-103-00	s	CERAMIC	27pF	5%	50V
C210	1-163-096-00	s	CERAMIC	13pF	5%	50V
C215	1-163-096-00	s	CERAMIC	13pF	5%	50V
C218	1-135-093-21	s	TANTAL	10	10%	10V
C220	1-135-093-21	s	TANTAL	10	10%	10V
C310	1-107-340-11	s	MICA	651.2	0.25%	100V
C311	1-163-103-00	s	CERAMIC	27pF	5%	50V
C312	1-163-103-00	s	CERAMIC	27pF	5%	50V
C319	1-163-123-00	s	CERAMIC	180pF	5%	50V
C321	1-163-135-00	s	CERAMIC	560pF	5%	50V
C367	1-163-095-00	s	CERAMIC	12pF	5%	50V
C368	1-163-095-00	s	CERAMIC	12pF	5%	50V
C381	1-163-096-00	s	CERAMIC	13pF	5%	50V
C389	1-163-094-00	s	CERAMIC	11pF	5%	50V
C394	1-163-102-00	s	CERAMIC	24pF	5%	50V
C395	1-163-094-00	s	CERAMIC	11pF	5%	50V
C397	1-124-462-00	s	ELECT	10	20%	16V
C408	1-124-224-00	s	ELECT	47	20%	6.3V
C414	1-124-471-00	s	ELECT	1000	20%	6.3V
C415	1-124-471-00	s	ELECT	1000	20%	6.3V
C417	1-126-103-11	s	ELECT	470	20%	16V
C421	1-126-103-11	s	ELECT	470	20%	16V
C439	1-124-471-00	s	ELECT	1000	20%	6.3V
C452	1-124-471-00	s	ELECT	1000	20%	6.3V

Ref.No. Parts No. SP Description

C454 1-124-224-00 s ELECT 47 20% 6.3V

C470 1-163-107-00 s CERAMIC 39pF 5% 50V

C803 1-135-093-21 s TANTAL 10 10% 10V

C813 1-135-093-21 s TANTAL 10 10% 10V

C823 1-135-093-21 s TANTAL 10 10% 10V

C842 1-135-096-21 s TANTAL 4.7 10% 10V

CN110 1-506-746-11 s DIN 48P

CN111 1-506-748-11 s DIN 96P

CV1 1-141-229-00 s TRIMMER, CERAMIC 10pF

CV2 1-141-229-00 s TRIMMER, CERAMIC 10pF

D1 8-719-101-23 s 1SS123

D2 8-719-101-23 s 1SS123

D3 8-719-105-85 s RD5.1ES-B2

D4 8-719-101-23 s 1SS123

D5 8-719-109-94 s RD6.2ES-B3

D6 8-719-101-23 s 1SS123

D9 8-719-101-23 s 1SS123

D13 8-719-109-94 s RD6.2ES-B3

D301 8-719-101-23 s 1SS123

D302 8-719-109-84 s RD5.1ES-B1

D303 8-719-101-23 s 1SS123

D304 8-719-101-23 s 1SS123

D305 8-719-101-23 s 1SS123

D306 8-719-109-53 s RD2.2ES-B1

D308 8-719-101-23 s 1SS123

D309 8-719-101-23 s 1SS123

D310 8-719-109-94 s RD6.2ES-B3

D311 8-719-109-94 s RD6.2ES-B3

DL1 1-415-162-11 s 50ns

DL301 1-415-162-11 s 50ns

FB1 1-535-178-00 s FERRITE BEAD

FB301 1-535-178-00 s FERRITE BEAD

FB302 1-535-178-00 s FERRITE BEAD

FB303 1-535-178-00 s FERRITE BEAD

FB304 1-535-178-00 s FERRITE BEAD

FB305 1-535-178-00 s FERRITE BEAD

FB306 1-535-178-00 s FERRITE BEAD

FL1 1-236-132-11 s LOW-PASS 4.5MHz

FL2 1-236-024-11 s LOW-PASS 4.0MHz

FL3 1-235-447-11 s BAND ELIMINATE 3.58MHz

FL4 1-235-321-11 s LOW-PASS 2.1MHz

FL301 1-235-284-21 s LOW-PASS(C)

IC1 8-752-015-81 s CX20158 (SONY)

IC2 8-752-015-81 s CX20158 (SONY)

IC3 8-759-112-53 s uPC1663G (NEC)

IC4 8-759-112-53 s uPC1663G (NEC)

IC5 8-752-015-81 s CX20158 (SONY)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description	Ref.No.	Parts No.	SP	Description
IC6	8-729-801-45	s	28C3064E	L15	1-410-466-41	s	MICRO 4.7
IC7	8-766-001-49	s	TX429M	L16	1-410-482-31	s	MICRO 100
IC8	8-759-969-13	s	SN16913P (TI)	L17	1-410-482-31	s	MICRO 100
IC9	8-759-700-43	s	NJM4558M (JRC)	L18	1-410-482-31	s	MICRO 100
IC10	8-759-700-95	s	NJM1496M (JRC)	L21	1-410-482-31	s	MICRO 100
IC11	8-759-908-17	s	TL082CPS (TI)	L22	1-410-482-31	s	MICRO 100
IC12	8-759-055-67	s	SN75107ANS-LS (TI)	L23	1-410-482-31	s	MICRO 100
IC13	8-759-208-11	s	TC4053BFHB (TOSHIBA)	L24	1-410-482-31	s	MICRO 100
IC14	8-749-920-42	s	BX1098L (SONY)	L25	1-410-482-31	s	MICRO 100
IC16	1-464-602-11	s	CIRCUIT UNIT, HF	L26	1-410-482-31	s	MICRO 100
IC17	8-752-006-13	s	CX20061 (SONY)	L27	1-410-482-31	s	MICRO 100
IC18	8-752-006-13	s	CX20061 (SONY)	L28	1-410-482-31	s	MICRO 100
IC19	8-759-012-00	s	MC10H116M (MOTOROLA)	L29	1-410-473-11	s	MICRO 18
IC20	8-759-001-98	s	MC10198L (MOTOROLA)	L30	1-410-464-11	s	MICRO 3.3
IC21	8-752-015-81	s	CX20158 (SONY)	L31	1-410-473-11	s	MICRO 18
IC22	8-759-112-53	s	uPC1663G (NEC)	L33	1-410-482-31	s	MICRO 100
IC24	8-759-908-17	s	TL082CPS (TI)	L34	1-410-482-31	s	MICRO 100
IC27	8-752-015-81	s	CX20158 (SONY)	L35	1-410-482-31	s	MICRO 100
IC28	8-752-015-81	s	CX20158 (SONY)	L36	1-410-478-11	s	MICRO 47
IC29	8-752-030-80	s	CXA1039M (SONY)	L37	1-410-482-31	s	MICRO 100
IC301	8-752-015-81	s	CX20158 (SONY)	L38	1-410-482-31	s	MICRO 100
IC302	8-759-112-53	s	uPC1663G (NEC)	L39	1-410-482-31	s	MICRO 100
IC303	8-752-015-81	s	CX20158 (SONY)	L40	1-410-482-31	s	MICRO 100
IC304	8-759-112-53	s	uPC1663G (NEC)	L42	1-410-482-31	s	MICRO 100
IC305	8-752-015-81	s	CX20158 (SONY)	L43	1-410-482-31	s	MICRO 100
IC306	8-729-801-45	s	28C3064E	L44	1-410-482-31	s	MICRO 100
IC307	8-766-001-49	s	TX429M	L45	1-410-482-31	s	MICRO 100
IC308	8-759-969-13	s	SN16913P (TI)	L46	1-410-482-31	s	MICRO 100
IC309	8-759-700-43	s	NJM4558M (JRC)	L47	1-410-459-11	s	MICRO 1.2
IC310	8-759-700-95	s	NJM1496M (JRC)	L48	1-410-461-41	s	MICRO 1.8
IC311	8-759-908-17	s	TL082CPS (TI)	L49	1-410-482-31	s	MICRO 100
IC312	8-759-055-67	s	SN75107ANS-LS (TI)	L52	1-410-482-31	s	MICRO 100
IC314	1-464-602-11	s	CIRCUIT UNIT, HF	L53	1-410-482-31	s	MICRO 100
IC315	8-759-204-98	s	TC74HC08F (TOSHIBA)	L54	1-410-482-31	s	MICRO 100
IC316	8-752-006-13	s	CX20061 (SONY)	L302	1-410-482-31	s	MICRO 100
IC317	8-759-012-00	s	MC10H116M (MOTOROLA)	L305	1-410-471-11	s	MICRO 12
IC318	8-759-001-98	s	MC10198L (MOTOROLA)	L306	1-410-482-31	s	MICRO 100
IC319	8-759-112-53	s	uPC1663G (NEC)	L307	1-410-482-31	s	MICRO 100
IC321	8-752-015-81	s	CX20158 (SONY)	L308	1-410-482-31	s	MICRO 100
IC322	8-759-701-00	s	NJM7809A (JRC)	L309	1-410-482-31	s	MICRO 100
IC324	8-759-205-39	s	TC74HC4049F (TOSHIBA)	L310	1-410-482-31	s	MICRO 100
IC325	8-759-204-98	s	TC74HC08F (TOSHIBA)	L312	1-410-482-31	s	MICRO 100
IC326	8-759-204-98	s	TC74HC08F (TOSHIBA)	L313	1-410-482-31	s	MICRO 100
IC327	8-759-205-40	s	TC74HC4050F (TOSHIBA)	L314	1-410-482-31	s	MICRO 100
IC328	8-759-604-29	s	NJM7805A (JRC)	L316	1-410-473-11	s	MICRO 18
IC801	8-752-030-80	s	CXA1039M (SONY)	L317	1-410-470-11	s	MICRO 10
IC811	8-752-030-80	s	CXA1039M (SONY)	L318	1-410-482-31	s	MICRO 100
IC821	8-752-030-80	s	CXA1039M (SONY)	L319	1-410-482-31	s	MICRO 100
IC831	8-759-941-17	s	SN74LS06NS (TI)	L320	1-410-482-31	s	MICRO 100
				L321	1-410-482-31	s	MICRO 100
L3	1-410-482-31	s	MICRO 100	L322	1-459-155-00	s	45 (WITH CORE)
L4	1-410-482-31	s	MICRO 100	L323	1-459-155-00	s	45 (WITH CORE)
L5	1-410-468-11	s	MICRO 6.8	L324	1-459-155-00	s	45 (WITH CORE)
L6	1-410-482-31	s	MICRO 100	L325	1-459-155-00	s	45 (WITH CORE)
L7	1-410-482-31	s	MICRO 100	L326	1-410-482-31	s	MICRO 100
L8	1-410-464-11	s	MICRO 3.3	L327	1-410-482-31	s	MICRO 100
L9	1-410-482-31	s	MICRO 100	L328	1-410-468-11	s	MICRO 6.8
L10	1-410-482-31	s	MICRO 100	L329	1-410-468-11	s	MICRO 6.8
L13	1-410-482-31	s	MICRO 100	L330	1-459-155-00	s	45 (WITH CORE)
L14	1-410-482-31	s	MICRO 100	L331	1-410-482-31	s	MICRO 100

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Ref.No. Parts No. SP Description

L332 1-410-482-31 s MICRO 100
 L333 1-410-482-31 s MICRO 100
 L336 1-410-482-31 s MICRO 100
 L337 1-410-482-31 s MICRO 100
 L339 1-410-482-31 s MICRO 100

L340 1-410-459-11 s MICRO 1.2
 L342 1-410-482-31 s MICRO 100
 L343 1-410-482-31 s MICRO 100
 L345 1-410-482-31 s MICRO 100
 L346 1-410-482-31 s MICRO 100

L1001 1-410-468-11 s MICRO 6.8

Q1 8-729-101-25 s 2SC1009A
 Q2 8-729-101-25 s 2SC1009A
 Q3 8-729-101-25 s 2SC1009A
 Q4 8-729-101-25 s 2SC1009A
 Q5 8-729-101-25 s 2SC1009A

Q6 8-729-101-25 s 2SC1009A
 Q7 8-729-101-25 s 2SC1009A
 Q8 8-729-101-25 s 2SC1009A
 Q9 8-729-101-25 s 2SC1009A
 Q10 8-729-202-38 s 2SC3326N

Q11 8-729-202-38 s 2SC3326N
 Q12 8-729-202-38 s 2SC3326N
 Q13 8-729-202-38 s 2SC3326N
 Q14 8-729-101-25 s 2SC1009A
 Q15 8-729-101-25 s 2SC1009A

Q16 8-729-101-25 s 2SC1009A
 Q17 8-729-101-25 s 2SC1009A
 Q18 8-729-101-25 s 2SC1009A
 Q19 8-729-101-25 s 2SC1009A
 Q20 8-729-101-25 s 2SC1009A

Q21 8-729-101-25 s 2SC1009A
 Q22 8-729-101-25 s 2SC1009A
 Q23 8-729-202-38 s 2SC3326N
 Q24 8-729-202-38 s 2SC3326N
 Q25 8-729-101-25 s 2SC1009A

Q26 8-729-202-38 s 2SC3326N
 Q27 8-729-101-25 s 2SC1009A
 Q28 8-729-101-25 s 2SC1009A
 Q29 8-729-101-25 s 2SC1009A
 Q30 8-729-101-25 s 2SC1009A

Q31 8-729-122-63 s 2SA1226
 Q32 8-729-122-63 s 2SA1226
 Q33 8-729-101-25 s 2SC1009A
 Q34 8-729-102-07 s 2SC2223
 Q35 8-729-101-25 s 2SC1009A

Q36 8-729-101-25 s 2SC1009A
 Q37 8-729-101-25 s 2SC1009A
 Q38 8-729-101-25 s 2SC1009A
 Q39 8-729-101-25 s 2SC1009A
 Q40 8-729-101-25 s 2SC1009A

Q41 8-729-101-25 s 2SC1009A
 Q42 8-729-202-38 s 2SC3326N
 Q43 8-729-101-25 s 2SC1009A
 Q44 8-729-101-25 s 2SC1009A
 Q45 8-729-101-25 s 2SC1009A

Ref.No. Parts No. SP Description

Q47 8-729-122-63 s 2SA1226
 Q48 8-729-202-38 s 2SC3326N
 Q49 8-729-101-25 s 2SC1009A
 Q50 8-729-101-25 s 2SC1009A
 Q51 8-729-101-25 s 2SC1009A

Q52 8-729-101-25 s 2SC1009A
 Q53 8-729-101-25 s 2SC1009A
 Q54 8-729-101-25 s 2SC1009A
 Q56 8-729-101-25 s 2SC1009A
 Q57 8-729-101-25 s 2SC1009A

Q58 8-729-101-25 s 2SC1009A
 Q59 8-729-101-25 s 2SC1009A
 Q60 8-729-101-25 s 2SC1009A
 Q61 8-729-102-07 s 2SC2223
 Q62 8-729-102-07 s 2SC2223

Q63 8-729-102-07 s 2SC2223
 Q64 8-729-101-25 s 2SC1009A
 Q65 8-729-101-25 s 2SC1009A
 Q66 8-729-101-25 s 2SC1009A
 Q67 8-729-101-25 s 2SC1009A

Q68 8-729-101-25 s 2SC1009A
 Q69 8-729-101-25 s 2SC1009A
 Q70 8-729-101-25 s 2SC1009A
 Q71 8-729-101-25 s 2SC1009A
 Q72 8-729-101-25 s 2SC1009A

Q73 8-729-101-25 s 2SC1009A
 Q74 8-729-101-25 s 2SC1009A
 Q75 8-729-101-25 s 2SC1009A
 Q76 8-729-104-51 s 2SC1009A
 Q77 8-729-122-63 s 2SA1226

Q78 8-729-103-87 s 2SK94
 Q79 8-729-104-51 s 2SC1009A
 Q80 8-729-104-51 s 2SC1009A
 Q81 8-729-102-07 s 2SC2223
 Q82 8-729-104-51 s 2SC1009A

Q83 8-729-102-07 s 2SC2223
 Q84 8-729-102-07 s 2SC2223
 Q85 8-729-102-07 s 2SC2223
 Q86 8-729-102-07 s 2SC2223
 Q87 8-729-900-36 s DTC124ES

Q105 8-729-102-07 s 2SC2223
 Q302 8-729-101-25 s 2SC1009A
 Q303 8-729-101-25 s 2SC1009A
 Q304 8-729-101-25 s 2SC1009A
 Q305 8-729-202-38 s 2SC3326N

Q306 8-729-101-25 s 2SC1009A
 Q307 8-729-101-25 s 2SC1009A
 Q308 8-729-202-38 s 2SC3326N
 Q309 8-729-202-38 s 2SC3326N
 Q310 8-729-202-38 s 2SC3326N

Q311 8-729-202-38 s 2SC3326N
 Q312 8-729-101-25 s 2SC1009A
 Q313 8-729-101-25 s 2SC1009A
 Q314 8-729-101-25 s 2SC1009A
 Q315 8-729-101-25 s 2SC1009A

Q316 8-729-101-25 s 2SC1009A
 Q317 8-729-101-25 s 2SC1009A
 Q318 8-729-101-25 s 2SC1009A
 Q319 8-729-101-25 s 2SC1009A
 Q320 8-729-101-25 s 2SC1009A

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Ref.No.	Parts No.	SP	Description	Ref.No.	Parts No.	SP	Description
Q321	8-729-202-38	s	2SC3326N	R154	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
Q322	8-729-101-25	s	2SC1009A	R155	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
Q323	8-729-101-25	s	2SC1009A	R156	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
Q324	8-729-202-38	s	2SC3326N	R157	1-216-649-11	s	METAL CHIP 820 0.50% 1/10W
Q325	8-729-101-25	s	2SC1009A	R158	1-216-654-11	s	METAL CHIP 1.3k 0.50% 1/10W
Q326	8-729-101-25	s	2SC1009A	R159	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W
Q327	8-729-122-63	s	2SA1226	R160	1-216-627-11	s	METAL CHIP 100 0.50% 1/10W
Q328	8-729-122-63	s	2SA1226	R161	1-216-650-11	s	METAL CHIP 910 0.50% 1/10W
Q329	8-729-101-25	s	2SC1009A	R162	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
Q330	8-729-101-25	s	2SC1009A	R163	1-216-619-11	s	METAL CHIP 47 0.50% 1/10W
Q331	8-729-101-25	s	2SC1009A	R164	1-216-619-11	s	METAL CHIP 47 0.50% 1/10W
Q332	8-729-101-25	s	2SC1009A	R165	1-216-627-11	s	METAL CHIP 100 0.50% 1/10W
Q333	8-729-101-25	s	2SC1009A	R166	1-216-627-11	s	METAL CHIP 100 0.50% 1/10W
Q334	8-729-101-25	s	2SC1009A	R167	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
Q335	8-729-101-25	s	2SC1009A	R169	1-216-645-11	s	METAL CHIP 560 0.50% 1/10W
Q336	8-729-202-38	s	2SC3326N	R170	1-216-631-11	s	METAL CHIP 150 0.50% 1/10W
Q337	8-729-101-25	s	2SC1009A	R171	1-216-644-11	s	METAL CHIP 510 0.50% 1/10W
Q338	8-729-101-25	s	2SC1009A	R172	1-216-650-11	s	METAL CHIP 910 0.50% 1/10W
Q339	8-729-101-25	s	2SC1009A	R177	1-216-642-11	s	METAL CHIP 430 0.50% 1/10W
Q340	8-729-101-25	s	2SC1009A	R179	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W
Q341	8-729-101-25	s	2SC1009A	R181	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
Q342	8-729-122-63	s	2SA1226	R182	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
Q343	8-729-202-38	s	2SC3326N	R184	1-216-629-11	s	METAL CHIP 120 0.50% 1/10W
Q344	8-729-122-63	s	2SA1226	R186	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
Q345	8-729-101-25	s	2SC1009A	R187	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
Q346	8-729-101-25	s	2SC1009A	R188	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
Q347	8-729-101-25	s	2SC1009A	R189	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
Q348	8-729-102-07	s	2SC2223	R190	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W
Q349	8-729-900-36	s	DTCL24ES	R193	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
Q841	8-729-101-25	s	2SC1009A	8) R196	1-216-645-11	s	METAL CHIP 560 0.50% 1/10W
Q1001	8-729-102-07	s	2SC2223	R199	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R10	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W	R203	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R20	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W	R204	1-216-641-11	s	METAL CHIP 390 0.50% 1/10W
R22	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R206	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W
R31	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R207	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W
R36	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R208	1-216-637-11	s	METAL CHIP 270 0.50% 1/10W
R37	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W	R211	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R51	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W	R216	1-216-624-11	s	METAL CHIP 75 0.50% 1/10W
R61	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W	R217	1-216-624-11	s	METAL CHIP 75 0.50% 1/10W
R62	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W	R220	1-216-638-11	s	METAL CHIP 300 0.50% 1/10W
R70	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R221	1-216-624-11	s	METAL CHIP 75 0.50% 1/10W
R71	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W	R222	1-216-623-11	s	METAL CHIP 68 0.50% 1/10W
8) R77	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W	R229	1-216-650-11	s	METAL CHIP 910 0.50% 1/10W
R79	1-216-657-11	s	METAL CHIP 1.8k 0.50% 1/10W	R230	1-216-690-11	s	METAL CHIP 43k 0.50% 1/10W
R80	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R231	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W
R81	1-216-647-11	s	METAL CHIP 680 0.50% 1/10W	R240	1-218-176-11	s	METAL CHIP 289 0.10% 1/16W
R94	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R241	1-216-647-11	s	METAL CHIP 680 0.50% 1/10W
R96	1-247-217-00	s	CARBON 110 5% 1/2W	R244	1-216-030-00	s	METAL CHIP 160 0.50% 1/10W
R104	1-216-650-11	s	METAL CHIP 910 0.50% 1/10W	R246	1-216-642-11	s	METAL CHIP 430 0.50% 1/10W
R105	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W	R255	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
R107	1-216-669-11	s	METAL CHIP 5.6k 0.50% 1/10W	R256	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
8) R119	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W	R262	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W
R128	1-216-627-11	s	METAL CHIP 100 0.50% 1/10W	R268	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R129	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W	R273	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R137	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R278	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R142	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W	R279	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R145	1-216-649-11	s	METAL CHIP 820 0.50% 1/10W	R285	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
8) R148	1-216-645-11	s	METAL CHIP 560 0.50% 1/10W	R286	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R151	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R291	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R152	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R293	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R153	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R294	1-216-667-11	s	METAL CHIP 4.7k 0.05% 1/19W
				R299	1-218-178-11	s	METAL CHIP 1002 0.10% 1/16W
				R306	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W
				R318	1-216-624-11	s	METAL CHIP 75 0.50% 1/10W
				R320	1-218-177-11	s	METAL CHIP 1001 0.10% 1/16W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

R323 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R333 1-216-635-11 s METAL CHIP 220 0.50% 1/10W
 R335 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R336 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R341 1-216-635-11 s METAL CHIP 220 0.50% 1/10W

R354 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
 R363 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
 R364 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
 R372 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R374 1-216-687-11 s METAL CHIP 33k 0.50% 1/10W

8) R377 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
 R378 1-218-175-11 s METAL CHIP 267 0.10% 1/16W
 R380 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
 R382 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R406 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W

R407 1-216-669-11 s METAL CHIP 5.6k 0.50% 1/10W
 R415 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R416 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R421 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R422 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W

R423 1-216-653-11 s METAL CHIP 1.2k 0.50% 1/10W
 R426 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R427 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R428 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R429 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W

R430 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R431 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R432 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R433 1-216-627-11 s METAL CHIP 100 0.50% 1/10W
 R434 1-216-631-11 s METAL CHIP 150 0.50% 1/10W

R435 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R436 1-216-649-11 s METAL CHIP 820 0.50% 1/10W
 R437 1-216-619-11 s METAL CHIP 47 0.50% 1/10W
 R438 1-216-619-11 s METAL CHIP 47 0.50% 1/10W
 R439 1-216-627-11 s METAL CHIP 100 0.50% 1/10W

R440 1-216-627-11 s METAL CHIP 100 0.50% 1/10W
 R441 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R443 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R444 1-216-644-11 s METAL CHIP 510 0.50% 1/10W
 R448 1-216-635-11 s METAL CHIP 220 0.50% 1/10W

R450 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R451 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R455 1-216-635-11 s METAL CHIP 220 0.50% 1/10W
 R458 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
 R459 1-216-638-11 s METAL CHIP 300 0.50% 1/10W

R460 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
 R461 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R462 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R463 1-216-633-11 s METAL CHIP 180 0.50% 1/10W
 R464 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W

R465 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R469 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R472 1-216-624-11 s METAL CHIP 75 0.50% 1/10W
 R474 1-216-615-11 s METAL CHIP 33 0.50% 1/10W
 R476 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W

R480 1-216-623-11 s METAL CHIP 68 0.50% 1/10W
 R490 1-216-690-11 s METAL CHIP 43k 0.50% 1/10W
 R496 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R498 1-216-654-11 s METAL CHIP 1.3k 0.50% 1/10W
 R504 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W

Ref.No. Parts No. SP Description

R532 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R601 1-216-640-11 s METAL CHIP 360 0.50% 1/10W
 R602 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
 R603 1-216-640-11 s METAL CHIP 360 0.50% 1/10W
 R610 1-216-650-11 s METAL CHIP 910 0.50% 1/10W

R613 1-216-637-11 s METAL CHIP 270 0.50% 1/10W
 R614 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W
 R615 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W
 R621 1-216-650-11 s METAL CHIP 910 0.50% 1/10W

R803 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R841 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R842 1-216-658-11 s METAL CHIP 2k 0.50% 1/10W

RB301 1-231-411-00 s 100k x 8

RV1 1-228-457-00 s VAR, CERMET 2k
 RV2 1-228-457-00 s VAR, CERMET 2k
 RV3 1-228-459-00 s VAR, CERMET 10k
 RV4 1-228-459-00 s VAR, CERMET 10k
 RV5 1-228-459-00 s VAR, CERMET 10k

RV6 1-228-454-00 s VAR, CERMET 200
 RV7 1-237-515-21 s VAR, CERMET 1k
 RV8 1-237-515-21 s VAR, CERMET 1k
 RV9 1-237-515-21 s VAR, CERMET 1k
 RV10 1-237-515-21 s VAR, CERMET 1k

RV11 1-228-457-00 s VAR, CERMET 2k
 RV12 1-228-459-00 s VAR, CERMET 10k
 RV13 1-228-459-00 s VAR, CERMET 10k
 RV14 1-228-456-00 s VAR, CERMET 1k
 RV15 1-228-459-00 s VAR, CERMET 10k

RV16 1-228-459-00 s VAR, CERMET 10k
 RV17 1-228-454-00 s VAR, CERMET 200
 RV18 1-228-457-00 s VAR, CERMET 2k
 RV19 1-228-455-00 s VAR, CERMET 500
 RV21 1-228-457-00 s VAR, CERMET 5k

RV22 1-228-457-00 s VAR, CERMET 5k
 RV23 1-228-456-00 s VAR, CERMET 1k
 RV24 1-228-456-00 s VAR, CERMET 1k
 RV25 1-228-457-00 s VAR, CERMET 2k
 RV26 1-228-462-00 s VAR, CERMET 100k

RV27 1-237-515-21 s VAR, CERMET 1k
 RV29 1-228-457-00 s VAR, CERMET 2k
 RV30 1-228-462-00 s VAR, CERMET 100k
 RV31 1-228-456-00 s VAR, CERMET 1k
 9) RV32 1-228-457-00 s VAR, CERMET 2k

10) RV32 1-228-458-00 s VAR, CERMET 5k
 RV33 1-228-457-00 s VAR, CERMET 2k
 RV34 1-228-456-00 s VAR, CERNET 1k
 RV35 1-228-456-00 s VAR, CERMET 1k
 RV36 1-228-462-00 s VAR, CERMET 100k

RV38 1-228-462-00 s VAR, CERMET 100k
 RV39 1-228-457-00 s VAR, CERMET 5k
 RV40 1-228-457-00 s VAR, CERMET 5k
 RV41 1-228-457-00 s VAR, CERMET 2k
 RV42 1-228-457-00 s VAR, CERMET 2k

RV301 1-228-457-00 s VAR, CERMET 2k
 RV302 1-228-459-00 s VAR, CERMET 10k
 RV303 1-228-457-00 s VAR, CERMET 2k
 RV304 1-228-459-00 s VAR, CERMET 10k
 RV305 1-228-457-00 s VAR, CERMET 2k

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

M-56, DP-71/72/73

Ref.No.	Parts No.	SP	Description
RV306	1-228-457-00	s	VAR, CERMET 2k
RV307	1-237-515-21	s	VAR, CERMET 1k
RV308	1-237-515-21	s	VAR, CERMET 1k
RV309	1-237-515-21	s	VAR, CERMET 1k
RV310	1-237-515-21	s	VAR, CERMET 1k
RV311	1-228-457-00	s	VAR, CERMET 2k
RV312	1-228-459-00	s	VAR, CERMET 10k
RV313	1-228-460-00	s	VAR, CERMET 20k
RV314	1-228-455-00	s	VAR, CERMET 500
RV315	1-237-516-21	s	VAR, CERMET 2k
RV316	1-237-515-21	s	VAR, CERMET 1k
RV317	1-228-455-00	s	VAR, CERMET 500
RV318	1-228-461-00	s	VAR, CERMET 50k
RV319	1-228-462-00	s	VAR, CERMET 100k
RV321	1-228-460-00	s	VAR, CERMET 20k
RV322	1-228-456-00	s	VAR, CERMET 1k
RV323	1-228-456-00	s	VAR, CERMET 1k
RV324	1-228-457-00	s	VAR, CERMET 5k
RV325	1-228-455-00	s	VAR, CERMET 500
RV350	1-228-457-00	s	VAR, CERMET 2k
RV601	1-228-457-00	s	VAR, CERMET 2k
S1	1-564-947-11	s	DIP
S2	1-552-509-00	s	DIP
S3	1-552-509-00	s	DIP
S301	1-564-947-11	s	DIP
S302	1-552-509-00	s	DIP
S303	1-552-509-00	s	DIP
SP1	1-560-733-00	s	PIN, SHORT
SP2	1-560-733-00	s	PIN, SHORT
SP3	1-560-733-00	s	PIN, SHORT
SP302	1-566-388-11	s	2P
SS1	1-565-413-11	s	RECEPTACLE 2P
SS3	1-561-832-00	s	SOCKET, SHORT
SS301	1-565-413-11	s	RECEPTACLE 2P
TH1	1-565-112-XX	s	S-10K
TH3	1-800-200-00	s	S-3K
TH4	1-800-200-00	s	S-3K
TH301	1-800-202-XX	s	S-10K
TH302	1-800-200-00	s	S-3K

Ref.No. Parts No. SP Description

DP-71 BOARD

All the component parts on the DP-71 board are supplied together when you order the key chassis ass'y.

1-622-556-11 o PRINTED CIRCUIT BOARD, DP-71

D60	8-719-942-19	s	LB402V
D61	8-719-942-19	s	LB402V
D62	8-719-942-19	s	LB402V
D63	8-719-942-19	s	LB402V
S29	1-552-539-00	s	KEY BOARD
S30	1-552-539-00	s	KEY BOARD
S31	1-552-539-00	s	KEY BOARD

DP-72 BOARD

1-622-591-12 o PRINTED CIRCUIT BOARD, DP-72

D1	8-719-800-89	s	TLY255
D2	8-719-800-89	s	TLY255
D3	8-719-800-89	s	TLY255
D4	8-719-800-89	s	TLY255

DP-73 BOARD

All the component parts on the DP-73 board are supplied together when you order the indication tube ass'y.

C101	1-124-343-00	s	ELECT 2200 20% 16V
L101	1-459-155-00	s	45 (WITH CORE)
L102	1-459-155-00	s	45 (WITH CORE)
R101	1-207-620-11	s	WIRE 1 10% 3W
R102	1-532-675-21	s	IC LINK
S101	1-571-258-11	s	SLIDE
S102	1-571-258-11	s	SLIDE

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

DP-74 BOARD

All the component parts on the DP-74 board are supplied together when you order the indication tube ass'y.

C5	1-124-225-00	s	ELECT	100	20%	6.3V
C6	1-124-248-00	s	ELECT	22	20%	35V
C8	1-124-584-00	s	ELECT	100	20%	10V
C9	1-124-584-00	s	ELECT	100	20%	10V
C13	1-124-255-00	s	ELECT	1	20%	50V
C14	1-124-224-00	s	ELECT	47	20%	6.3V

CN1 1-535-900-11 o WIRE, JUMPER

D1	8-719-100-17	s	RD3.3ES-B1
D2	8-719-100-05	s	1S2837
D3	8-719-109-70	s	RD3.9ES-B
D4	8-719-100-05	s	1S2837
D5	8-719-100-05	s	1S2837

IC1	8-759-942-62	s	MB88515B-280M (FUJITSU)
IC2	8-759-904-71	s	MSL917RS (OKI)

Q1	8-729-901-06	s	DTA144Ek
Q2	8-729-901-06	s	DTA144Ek
Q3	8-729-901-06	s	DTA144Ek
Q4	8-729-271-23	s	2SC2712
Q5	8-729-271-23	s	2SC2712

RV1 1-228-471-11 s VAR, CERMET 1k

X1 1-579-693-11 s VIBRATOR 6.00MHz

DR-56 BOARD

1-622-561-12 o PRINTED CIRCUIT BOARD, DR-56

Q1	8-729-376-83	s	2SA768-Y
Q2	8-729-402-10	s	2SD1276A
Q3	8-729-402-10	s	2SD1276A
Q4	8-729-402-10	s	2SD1276A
Q5	8-729-402-10	s	2SD1276A

Q6	8-729-402-10	s	2SD1276A
Q7	8-729-402-10	s	2SD1276A
Q8	8-729-376-83	s	2SA768-Y
Q9	8-729-102-57	s	2SC3012
Q10	8-729-114-11	s	2SA1141

Q11	8-729-114-11	s	2SA1141
Q12	8-729-102-57	s	2SC3012

Ref.No. Parts No. SP Description

DT-13 BOARD

IC21 8-759-092-90 o 2764-BVW75V1.05DT

A-6715-359-A o MOUNTED CIRCUIT BOARD, DT-13

C100	1-124-236-00	s	ELECT	47	20%	10V
C101	1-124-236-00	s	ELECT	47	20%	10V
C102	1-124-236-00	s	ELECT	47	20%	10V
C214	1-124-462-00	s	ELECT	10	20%	16V
C215	1-124-236-00	s	ELECT	47	20%	10V

CN1 1-506-748-11 s DIN 96P

D10	8-719-911-19	s	1SS119
D12	8-719-911-19	s	1SS119
D13	8-719-911-19	s	1SS119
D201	8-719-911-19	s	1SS119
D202	8-719-101-97	s	1SS97-1

D203	8-719-911-19	s	1SS119
D204	8-719-911-19	s	1SS119
D205	8-719-911-19	s	1SS119
D302	8-719-911-19	s	1SS119
D303	8-719-911-19	s	1SS119

D305	8-719-800-60	s	LN25RP
D306	8-719-101-97	s	1SS97-1

IC1	8-759-145-58	s	uPC4558C (NEC)
IC3	8-759-926-65	s	SN74HC368NS (TI)
IC4	8-759-145-58	s	uPC4558C (NEC)
IC5	8-759-729-03	s	NJM2903D (JRC)
IC6	8-759-200-80	s	TC4050BF (TOSHIBA)

IC7	8-759-207-74	s	TC4030BFHB (TOSHIBA)
IC9	8-759-200-67	s	TC4001BF (TOSHIBA)
IC10	8-759-200-84	s	TC4081BF (TOSHIBA)
IC11	8-759-200-90	s	TC4538BF (TOSHIBA)
IC15	8-759-914-74	s	MSM5204ARS (OKI)

IC19	8-759-204-71	s	TC40H163F (TOSHIBA)
IC20	8-759-072-59	s	TMPZ84C011BF-6 (TOSHIBA)
IC22	8-752-323-64	s	CKX5816M-12L (SONY)
IC23	8-759-204-60	s	TC40H139F (TOSHIBA)
IC24	8-759-201-63	s	TC40H032F (TOSHIBA)

IC26	8-759-208-41	s	TMPZ84C30AP-6 (TOSHIBA)
IC27	8-759-205-06	s	TC74HC74F (TOSHIBA)
IC28	8-759-938-68	s	CKD1095Q (SONY)
IC35	8-759-910-83	s	TL072ACP (TI)
IC37	8-759-208-11	s	TC4053BFHB (TOSHIBA)

IC38	8-759-208-11	s	TC4053BFHB (TOSHIBA)
IC40	8-759-145-58	s	uPC4558C (NEC)
IC42	8-759-205-78	s	TC504013BF (TOSHIBA)

Q201	8-729-600-27	s	2SC634SP
Q306	8-729-600-27	s	2SC634SP

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

RI51	1-247-895-00	s	CARBON	470k	5%	1/4W
R230	1-247-887-00	s	CARBON	220k	5%	1/4W
RB201	1-231-387-00	s	NETTY			
RB202	1-231-387-00	s	NETTY			
RB203	1-232-029-11	s	COMPOSITION CIRCUIT BLOCK			
RB204	1-232-235-11	s	COMPOSITION CIRCUIT BLOCK			
RB301	1-231-387-00	s	NETTY			
RB302	1-231-387-00	s	NETTY			
RV205	1-237-518-21	s	VAR, CERMET	10k		
RV206	1-237-518-21	s	VAR, CERMET	10k		
S201	1-553-572-00	s	DIP (PIANO TYPE)			
S202	1-552-539-00	s	KEY BOARD			
X201	1-567-865-11	s	VIBRATOR	12.00MHz		

DT-14 BOARD

2) This board includes the DUS-282 board.

A-6715-360-A o MOUNTED CIRCUIT BOARD, DT-14

C9	1-136-153-00	s	MYLAR	0.01	10%	50V
C10	1-162-710-11	s	CERAMIC	100pF	1%	50V
C11	1-136-165-00	s	MYLAR	0.1	10%	50V
C12	1-136-153-00	s	MYLAR	0.01	10%	50V
C14	1-136-153-00	s	MYLAR	0.01	10%	50V
C16	1-136-155-00	s	MYLAR	0.015	10%	50V
C17	1-136-153-00	s	MYLAR	0.01	10%	50V
C19	1-162-722-11	s	CERAMIC	330pF	1%	50V
C20	1-136-157-00	s	MYLAR	0.022	10%	50V
C21	1-136-153-00	s	MYLAR	0.01	10%	50V
C22	1-136-153-00	s	MYLAR	0.01	10%	50V
C23	1-136-153-00	s	MYLAR	0.01	10%	50V
C24	1-162-710-11	s	CERAMIC	100pF	1%	50V
C25	1-136-153-00	s	MYLAR	0.01	10%	50V
C26	1-136-165-00	s	MYLAR	0.1	10%	50V
C28	1-136-153-00	s	MYLAR	0.01	10%	50V
C30	1-136-155-00	s	MYLAR	0.015	10%	50V
C31	1-136-159-00	s	MYLAR	0.033	10%	50V
C32	1-136-161-00	s	MYLAR	0.047	10%	50V
C34	1-136-165-00	s	MYLAR	0.1	10%	50V
C35	1-136-159-00	s	MYLAR	0.033	10%	50V
C36	1-136-161-00	s	MYLAR	0.047	10%	50V
C38	1-106-357-00	s	MYLAR	0.0039	10%	50V
C39	1-106-357-00	s	MYLAR	0.0039	10%	50V
C40	1-136-153-00	s	MYLAR	0.01	10%	50V
C41	1-136-153-00	s	MYLAR	0.01	10%	50V
C42	1-136-153-00	s	MYLAR	0.01	10%	50V
C43	1-136-153-00	s	MYLAR	0.01	10%	50V
C45	1-136-165-00	s	MYLAR	0.1	10%	50V
C49	1-106-357-00	s	MYLAR	0.0039	10%	50V

Ref.No. Parts No. SP Description

C50	1-106-357-00	s	MYLAR	0.0039	10%	50V
C51	1-136-153-00	s	MYLAR	0.01	10%	50V
C52	1-136-153-00	s	MYLAR	0.01	10%	50V
C53	1-136-153-00	s	MYLAR	0.01	10%	50V
C54	1-136-153-00	s	MYLAR	0.01	10%	50V
C58	1-136-165-00	s	MYLAR	0.1	10%	50V
C59	1-136-165-00	s	MYLAR	0.1	10%	50V
C76	1-136-157-00	s	MYLAR	0.022	10%	50V
C77	1-136-157-00	s	MYLAR	0.022	10%	50V
C100	1-124-236-00	s	ELECT	47	20%	10V
C101	1-124-236-00	s	ELECT	47	20%	10V
C102	1-124-236-00	s	ELECT	47	20%	10V
C206	1-136-153-00	s	MYLAR	0.01	10%	50V
C301	1-136-153-00	s	MYLAR	0.01	10%	50V
C302	1-136-153-00	s	MYLAR	0.01	10%	50V
C304	1-124-236-00	s	ELECT	47	20%	10V
C305	1-124-236-00	s	ELECT	47	20%	10V
C313	1-162-714-11	s	CERAMIC	150pF	1%	50V
C314	1-124-234-00	s	ELECT	22	20%	16V
C316	1-162-726-11	s	CERAMIC	470pF	1%	50V
C317	1-136-153-00	s	MYLAR	0.01	10%	50V
C319	1-136-153-00	s	MYLAR	0.01	10%	50V
C320	1-136-165-00	s	MYLAR	0.1	10%	50V
C325	1-106-357-00	s	MYLAR	0.0039	10%	50V
C329	1-136-153-00	s	MYLAR	0.01	10%	50V
C338	1-136-157-00	s	MYLAR	0.022	10%	50V

CNI 1-506-748-11 s DIN 96P

D1	8-719-911-19	s	1SS119
D2	8-719-101-97	s	1SS97-1
D3	8-719-911-19	s	1SS119
D4	8-719-100-21	s	RD3.9E-B
D5	8-719-100-21	s	RD3.9E-B
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-911-19	s	1SS119
D9	8-719-911-19	s	1SS119
D14	8-719-911-19	s	1SS119
D15	8-719-911-19	s	1SS119
D16	8-719-911-19	s	1SS119
D17	8-719-911-19	s	1SS119
D301	8-719-911-19	s	1SS119
D304	8-719-911-19	s	1SS119

IC1	8-759-300-78	s	HD14538BFF (HITACHI)
IC2	8-759-205-78	s	TC504013BF (TOSHIBA)
IC3	8-759-145-58	s	uPC4558C (NEC)
IC4	8-759-145-58	s	uPC4558C (NEC)
IC5	8-759-145-58	s	uPC4558C (NEC)
IC6	8-759-145-58	s	uPC4558C (NEC)
IC7	8-759-145-58	s	uPC4558C (NEC)
IC8	8-759-145-58	s	uPC4558C (NEC)
IC9	8-759-300-78	s	HD14538BFF (HITACHI)
IC10	8-759-300-78	s	HD14538BFF (HITACHI)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

IC11 8-759-145-58 s uPC4558C (NEC)
 IC12 8-759-200-74 s TC4023BF (TOSHIBA)
 IC13 8-759-200-82 s TC4069UBF (TOSHIBA)
 IC14 8-759-200-68 s TC4011BF (TOSHIBA)
 IC15 8-759-145-58 s uPC4558C (NEC)

IC16 8-759-145-58 s uPC4558C (NEC)
 IC17 8-759-145-58 s uPC4558C (NEC)
 IC18 8-759-145-58 s uPC4558C (NEC)
 IC19 8-759-145-58 s uPC4558C (NEC)
 IC20 8-759-145-58 s uPC4558C (NEC)

IC21 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC22 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC23 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC43 8-759-205-78 s TC504013BF (TOSHIBA)
 IC44 8-759-300-78 s HD14538BFP (HITACHI)

IC45 8-759-207-74 s TC4030BFHB (TOSHIBA)
 IC46 8-759-300-78 s HD14538BFP (HITACHI)
 IC47 8-759-205-78 s TC504013BF (TOSHIBA)
 IC48 8-759-300-78 s HD14538BFP (HITACHI)
 IC50 8-759-208-11 s TC4053BFHB (TOSHIBA)

IC51 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC101 8-752-006-13 s CX20061 (SONY)
 IC102 8-759-400-06 s AN608P (MATSUSHITA)
 IC103 8-759-324-11 s HA12411 (HITACHI)
 IC104 8-743-915-10 s BX3915A (SONY)

IC105 8-759-729-03 s NJM2903D (JRC)
 IC106 8-759-300-78 s HD14538BFP (HITACHI)

L301 1-410-482-31 s MICRO 100
 L303 1-410-468-11 s MICRO 6.8

Q1 8-729-201-05 s 2SC2878-B
 Q2 8-729-201-05 s 2SC2878-B
 Q301 8-729-173-37 s 2SA733-P
 Q302 8-729-266-93 s 2SC2669-Y
 Q303 8-729-201-05 s 2SC2878-B

Q304 8-729-266-93 s 2SC2669-Y
 Q305 8-729-201-05 s 2SC2878-B
 Q501 8-729-600-27 s 2SC643SP

R25 1-247-883-00 s CARBON 150k 5% 1/4W
 R37 1-247-887-00 s CARBON 220k 5% 1/4W
 R38 1-247-887-00 s CARBON 220k 5% 1/4W
 R52 1-247-883-00 s CARBON 150k 5% 1/4W
 R88 1-247-887-00 s CARBON 220k 5% 1/4W

R113 1-247-887-00 s CARBON 220k 5% 1/4W
 R505 1-247-885-00 s CARBON 180k 5% 1/4W
 R506 1-247-885-00 s CARBON 180k 5% 1/4W

RV2 1-237-520-21 s VAR, CERMET 50k
 RV3 1-237-520-21 s VAR, CERMET 50k
 RV4 1-237-520-21 s VAR, CERMET 50k
 RV5 1-237-520-21 s VAR, CERMET 50k
 RV6 1-237-518-21 s VAR, CERMET 10k

Ref.No. Parts No. SP Description

RV7 1-237-518-21 s VAR, CERMET 10k
 RV203 1-237-521-21 s VAR, CERMET 100k
 RV304 1-237-520-21 s VAR, CERMET 50k
 RV305 1-237-521-21 s VAR, CERMET 100k

S1 1-552-509-00 s DIP

DT-15 BOARD

A A-6715-355-A o MOUNTED CIRCUIT BOARD, DT-15

1-533-189-11 o HOLDER, FUSE

C1 1-136-161-00 s MYLAR 0.047 10% 50V
 C2 1-123-321-00 s ELECT 220 20% 16V
 C3 1-123-321-00 s ELECT 220 20% 16V
 C4 1-123-321-00 s ELECT 220 20% 16V
 C5 1-123-321-00 s ELECT 220 20% 16V

C6 1-123-321-00 s ELECT 220 20% 16V
 C7 1-123-321-00 s ELECT 220 20% 16V
 C8 1-130-834-00 s FILM 1 10% 63V
 C9 1-136-200-11 s FILM 0.15 10% 400V
 C10 1-136-200-11 s FILM 0.15 10% 400V

C11 1-136-200-11 s FILM 0.15 10% 400V
 C12 1-136-200-11 s FILM 0.15 10% 400V
 C13 1-136-200-11 s FILM 0.15 10% 400V
 C14 1-136-200-11 s FILM 0.15 10% 400V
 C15 1-136-161-00 s MYLAR 0.047 10% 50V

C16 1-136-161-00 s MYLAR 0.047 10% 50V
 C43 1-123-932-00 s ELECT 4.7 20% 160V
 C46 1-123-932-00 s ELECT 4.7 20% 160V
 C60 1-162-710-11 s CERAMIC 100pF 1% 50V
 C61 1-162-710-11 s CERAMIC 100pF 1% 50V

CN612 1-564-009-00 o 10P

D1 8-719-815-85 s 1S2076
 D2 8-719-924-06 s ERC24-06S
 D3 8-719-924-06 s ERC24-06S
 D4 8-719-924-06 s ERC24-06S
 D5 8-719-924-06 s ERC24-06S

D7 8-719-100-05 s 1S2837
 D8 8-719-100-03 s 1S2835
 D9 8-719-101-23 s 1SS123
 D11 8-719-109-97 s RD6.8ES-B2
 D12 8-719-101-23 s 1SS123

D15 8-719-100-03 s 1S2835

Δ F1 1-532-078-00 s TIME-LAG

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

IT-15, DUS-270/270C

Ref.No. Parts No. SP Description

IC7 8-759-945-58 s RC4558P (RAYTHEON)
IC8 8-759-945-58 s RC4558P (RAYTHEON)
IC9 8-759-945-58 s RC4558P (RAYTHEON)
IC10 8-759-945-58 s RC4558P (RAYTHEON)

L1 1-410-852-11 s CHOKE 138
L3 1-407-510-00 s MICRO 33
L4 1-407-510-00 s MICRO 33
L5 1-407-510-00 s MICRO 33
L6 1-407-510-00 s MICRO 33

Q1 8-729-101-68 s 2SC2654
Q2 8-729-101-68 s 2SC2654
Q6 8-729-105-97 s 2SA1156-2k
11) Q7 8-769-350-02 s 2SC1762
12) Q7 8-729-141-78 s 2SC3632-K

11) Q8 8-769-350-02 s 2SC1762
12) Q8 8-729-141-78 s 2SC3632-K
Q9 8-729-202-38 s 2SC3326N
Q10 8-729-216-21 s 2SA1162Y
Q11 8-729-118-43 s 2SA1413-L

Q12 8-729-105-97 s 2SA1156-2k
11) Q13 8-769-350-02 s 2SC1762
12) Q13 8-729-141-78 s 2SC3632-K
11) Q14 8-769-350-02 s 2SC1762
12) Q14 8-729-141-78 s 2SC3632-K

Q15 8-729-202-38 s 2SC3326N
Q16 8-729-216-21 s 2SA1162Y
Q17 8-729-118-43 s 2SA1413-L

R1 1-249-457-11 s CARBON 6.8 5% 1/4W
R2 1-247-700-11 s CARBON 100 5% 1/4W
R3 1-249-457-11 s CARBON 6.8 5% 1/4W
R4 1-247-713-11 s CARBON 1k 5% 1/4W
R47 1-214-929-00 s METAL 470k 1% 1/2W

R52 1-214-924-00 s METAL 300k 1% 1/2W
R54 1-214-915-00 s METAL 120k 1% 1/2W
R55 1-214-915-00 s METAL 120k 1% 1/2W
R58 1-247-755-11 s CARBON 1.8k 5% 1/2W
R65 1-214-929-00 s METAL 470k 1% 1/2W

R70 1-214-924-00 s METAL 300k 1% 1/2W
R72 1-214-915-00 s METAL 120k 1% 1/2W
R73 1-214-915-00 s METAL 120k 1% 1/2W
R76 1-247-755-11 s CARBON 1.8k 5% 1/2W

RV2 1-237-503-21 s VAR, CERMET 10k

T1 1-448-937-11 s TRANSFORMER, CONVERTER

Ref.No. Parts No. SP Description

DUS-270 BOARD

All the component parts on the DUS-270 board are supplied together when you order the VO-18 board.

C655 1-126-157-11 s ELECT 10 20% 16V

Q607 8-729-100-66 s 2SC1623
Q608 8-729-100-66 s 2SC1623

13) DUS-272C BOARD

All the component parts on the DUS-272C board are supplied together when you order the MD-46 board.

C4 1-135-125-95 s TANTAL 33 10% 10V
C5 1-163-094-00 s CERAMIC CHIP 11pF 5% 50V
C6 1-163-103-00 s CERAMIC CHIP 27pF 5% 50V
C10 1-135-093-21 s TANTAL 10 10% 10V
C14 1-163-104-00 s CERAMIC CHIP 30pF 5% 50V

CN1 1-565-897-11 o BOARD TO BOARD 18P

IC1 8-752-030-80 s CXA1039M (SONY)

Q1 8-729-201-27 s 2SC2715Y
Q2 8-729-201-27 s 2SC2715Y
Q3 8-729-201-27 s 2SC2715Y
Q4 8-729-201-27 s 2SC2715Y
Q5 8-729-201-27 s 2SC2715Y

Q6 8-729-102-07 s 2SC2223-F13
Q7 8-729-102-07 s 2SC2223-F13

R3 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W
R6 1-216-647-11 s METAL CHIP 680 0.50% 1/10W
R7 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W
R8 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
R10 1-216-654-11 s METAL CHIP 1.3k 0.50% 1/10W

R11 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
R12 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W
R13 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W
R17 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W

RV1 1-228-471-11 s VAR, CERMET 1k
RV2 1-228-476-11 s VAR, CERMET 50k
RV3 1-228-471-11 s VAR, CERMET 1k

TH1 1-800-200-11 s S-3K

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

13) DUS-272Y BOARD

All the component parts on the DUS-272Y board are supplied together when you order the MD-46 board.

C4	1-135-125-95	s	TANTAL	33	10%	10V
C5	1-163-094-00	s	CERAMIC CHIP	11pF	5%	50V
C6	1-163-103-00	s	CERAMIC CHIP	27pF	5%	50V
C10	1-135-093-21	s	TANTAL	10	10%	10V

IC1	8-752-030-80	s	CXA1039M (SONY)
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Q1	8-729-201-27	s	2SC2715Y
Q2	8-729-201-27	s	2SC2715Y
Q3	8-729-201-27	s	2SC2715Y
Q4	8-729-201-27	s	2SC2715Y
Q5	8-729-201-27	s	2SC2715Y
Q6	8-729-102-07	s	2SC2223-F13
Q7	8-729-102-07	s	2SC2223-F13

R3	1-216-657-11	s	METAL CHIP 1.8k	0.50%	1/10W
R6	1-216-647-11	s	METAL CHIP 680	0.50%	1/10W
R7	1-216-657-11	s	METAL CHIP 1.8k	0.50%	1/10W
R8	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W
R10	1-216-654-11	s	METAL CHIP 1.3k	0.50%	1/10W

R11	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W
R12	1-216-691-11	s	METAL CHIP 47k	0.50%	1/10W
R13	1-216-691-11	s	METAL CHIP 47k	0.50%	1/10W
R17	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W

RV1	1-237-552-11	s	VAR, CERMET 1k
RV2	1-237-557-11	s	VAR, CERMET 50k
RV3	1-237-552-11	s	VAR, CERMET 1k

TH1	1-800-200-11	s	S-3K
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DUS-273 BOARD

All the component parts on the DUS-273 board are supplied together when you order the DEC-42 board.

1-627-651-11	o	PRINTED CIRCUIT BOARD, DUS-273
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R1	1-216-660-11	s	METAL CHIP 2.4k	0.50%	1/10W
R2	1-216-670-11	s	METAL CHIP 6.2k	0.50%	1/10W

RV1	1-228-457-11	s	VAR, CERMET 2k
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Ref.No. Parts No. SP Description

DUS-282 BOARD

All the component parts on the DUS-282 board are supplied together when you order the DT-14 board.

A-6724-647-A	s	MOUNTED CIRCUIT BOARD, DUS-282
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IC53	8-759-908-92	s	TL084CNS (TI)
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DUS-570 BOARD

1-644-751-11	o	PRINTED CIRCUIT BOARD, DUS-570
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C401	1-163-038-00	s	CAP,CHIP CERAMIC	0.1	25V
C402	1-163-031-11	s	CAP,CHIP CERAMIC	0.01	50V
C403	1-126-394-11	s	CAP,CHIP ELECT	10	16V
C404	1-163-227-11	s	CAP,CHIP CERAMIC	10	50V

IC401	8-759-981-58	s	RC2043MD (RAYTHEON)
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EN-48 BOARD

A-6711-812-A	o	MOUNTED CIRCUIT BOARD, EN-48
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C6	1-124-584-00	s	ELECT	100	20%	10V
C8	1-124-584-00	s	ELECT	100	20%	10V
C12	1-124-222-00	s	ELECT	22	20%	6.3V
C13	1-124-462-00	s	ELECT	10	20%	16V
C14	1-124-584-00	s	ELECT	100	20%	10V

C16	1-124-584-00	s	ELECT	100	20%	10V
C22	1-124-584-00	s	ELECT	100	20%	10V
C41	1-162-886-11	s	CERAMIC	390pF	5%	50V
C43	1-124-236-00	s	ELECT	47	20%	10V
C48	1-124-236-00	s	ELECT	47	20%	10V

C51	1-124-584-00	s	ELECT	100	20%	10V
C53	1-124-584-00	s	ELECT	100	20%	10V
C55	1-163-033-00	s	CERAMIC	0.022		50V
C56	1-124-236-00	s	ELECT	47	20%	10V
C59	1-124-236-00	s	ELECT	47	20%	10V

C61	1-163-033-00	s	CERAMIC	0.022		50V
C64	1-162-880-11	s	CERAMIC	120pF	5%	50V
C68	1-124-584-00	s	ELECT	100	20%	10V
C70	1-124-236-00	s	ELECT	47	20%	10V
C71	1-162-877-11	s	CERAMIC	82pF	5%	50V

C72	1-107-163-00	s	MICA	47pF	5%	500V
C77	1-124-584-00	s	ELECT	100	20%	10V
C81	1-124-584-00	s	ELECT	100	20%	10V
C85	1-124-236-00	s	ELECT	47	20%	10V
C86	1-162-886-11	s	CERAMIC	390pF	5%	50V

C89	1-161-463-00	s	CERAMIC	220pF	5%	50V
C92	1-124-584-00	s	ELECT	100	20%	10V
C111	1-124-584-00	s	ELECT	100	20%	10V
C112	1-124-225-00	s	ELECT	100	20%	6.3V
C115	1-124-584-00	s	ELECT	100	20%	10V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description				Ref.No.	Parts No.	SP	Description
C118	1-124-225-00	s	ELECT	100	20%	6.3V	IC37	8-759-929-99	s	SN74LS32NS (TI)
C126	1-124-584-00	s	ELECT	100	20%	10V	IC38	8-759-009-07	s	MC14053BF (MOTOROLA)
C130	1-124-584-00	s	ELECT	100	20%	10V	IC39	8-759-239-58	s	TC74HC221AF (TOSHIBA)
C134	1-124-225-00	s	ELECT	100	20%	6.3V	IC50	8-759-014-29	s	MC34184M (MOTOROLA)
C203	1-124-584-00	s	ELECT	100	20%	10V	IC51	8-752-015-81	s	CX20158 (SONY)
C204	1-124-584-00	s	ELECT	100	20%	10V	IC52	1-464-601-11	s	CIRCUIT UNIT, VA
C214	1-163-033-00	s	CERAMIC	0.022		50V	IC53	8-752-015-81	s	CX20158 (SONY)
C216	1-163-033-00	s	CERAMIC	0.022		50V	IC54	8-759-009-07	s	MC14053BF (MOTOROLA)
C603	1-124-462-00	s	ELECT	10	20%	16V	IC55	1-464-601-11	s	CIRCUIT UNIT, VA
C604	1-124-236-00	s	ELECT	47	20%	10V	IC56	8-759-009-07	s	MC14053BF (MOTOROLA)
C613	1-161-463-00	s	CERAMIC	220pF	5%	50V	IC60	1-808-743-11	s	CIRCUIT UNIT, VA
C702	1-107-163-00	s	MICA	47pF	5%	500V	IC70	8-759-908-17	s	TL082CPS (TI)
C711	1-124-584-00	s	ELECT	100	20%	10V	IC71	8-752-015-81	s	CX20158 (SONY)
							IC72	1-464-601-11	s	CIRCUIT UNIT, VA
							IC101	8-759-708-09	s	NJM78L09A (JRC)
CN102	1-506-748-11	s	DIN 96P				IC102	8-759-700-65	s	NJM79L05A (JRC)
							IC103	8-759-937-61	s	S-81230AG (SEIKO I AND E)
D1	8-719-100-03	s	1S2835				IC104	8-759-941-79	s	S-80230AG (SEIKO I AND E)
							IC105	8-759-908-15	s	TL431CLP (TI)
DL1	1-415-538-11	s	ACTIVE 100ns				IC106	8-759-708-05	s	NJM78L05A (JRC)
							IC107	8-759-708-08	s	NJM78L08A (JRC)
FL1	1-236-004-11	s	LOW-PASS	2.5MHz			IC108	8-759-700-65	s	NJM79L05A (JRC)
FL2	1-236-004-11	s	LOW-PASS	2.5MHz			IC109	8-759-700-67	s	NJM79L08A (JRC)
FL3	1-236-530-11	s	BANDPASS	3.58MHz			IC110	8-759-708-05	s	NJM78L05A (JRC)
FL4	1-236-117-11	s	BANDPASS	3.58MHz			IC111	8-759-708-08	s	NJM78L08A (JRC)
							IC112	8-759-700-65	s	NJM79L05A (JRC)
							IC113	8-759-700-67	s	NJM79L08A (JRC)
IC1	8-759-014-29	s	MC34184M (MOTOROLA)				IC114	8-759-908-15	s	TL431CLP (TI)
IC2	1-808-743-11	s	CIRCUIT UNIT, VA				IC201	8-759-012-02	s	MC10H124M (MOTOROLA)
IC3	8-759-009-07	s	MC14053BF (MOTOROLA)				IC202	8-759-012-03	s	MC10H131M (MOTOROLA)
IC4	8-759-906-59	s	CX22017 (SONY)				IC203	8-759-011-98	s	MC10H13M (MOTOROLA)
IC5	8-752-053-97	s	CX20158 (SONY)				5) IC204	8-759-918-71	s	CX23065 (SONY)
IC6	8-759-030-16	s	MC34182M (MOTOROLA)				6) IC204	8-752-306-51	s	CX23065A (SONY)
IC10	8-759-012-02	s	MC10H124M (MOTOROLA)				IC206	8-759-930-56	s	SN74LS163ANS (TI)
IC11	8-759-012-03	s	MC10H131M (MOTOROLA)				IC601	8-759-700-95	s	NJML496M (JRC)
IC12	8-759-929-73	s	SN74LS00NS (TI)				IC701	8-759-008-52	s	MC74HC123AF (MOTOROLA)
IC13	8-759-011-98	s	MC10H13M (MOTOROLA)				IC702	8-759-902-88	s	SN74LS123NS (TI)
IC14	8-759-204-96	s	TC74HC04F (TOSHIBA)				IC703	8-759-908-17	s	TL082CPS (TI)
IC15	8-759-007-50	s	MC74HC11F (MOTOROLA)				IC705	8-759-030-16	s	MC34182M (MOTOROLA)
IC16	8-759-922-49	s	SN74LS74ANS (TI)				L13	1-410-478-11	s	MICRO 47
IC17	8-759-908-17	s	TL082CPS (TI)				L14	1-410-478-11	s	MICRO 47
IC18	8-759-008-52	s	MC74HC123AF (MOTOROLA)				L16	1-410-478-11	s	MICRO 47
IC19	8-759-907-81	s	SN74LS221NS (TI)				L17	1-410-478-11	s	MICRO 47
5) IC20	8-759-918-71	s	CX23065 (SONY)				L18	1-410-478-11	s	MICRO 47
6) IC20	8-752-306-51	s	CX23065A (SONY)				L19	1-410-478-11	s	MICRO 47
IC21	8-759-929-78	s	SN74LS04NS (TI)				L20	1-410-470-11	s	MICRO 10
IC22	8-759-930-56	s	SN74LS163ANS (TI)				L21	1-410-470-11	s	MICRO 10
IC24	8-759-941-27	s	MB4002PF (FUJITSU)				L22	1-410-478-11	s	MICRO 47
IC25	8-759-922-49	s	SN74LS74ANS (TI)				L100	1-421-329-00	s	CHOKE
IC26	8-759-941-17	s	SN74LS06NS (TI)				L101	1-421-329-00	s	CHOKE
IC27	8-759-907-81	s	SN74LS221NS (TI)				L102	1-421-329-00	s	CHOKE
IC31	8-759-922-49	s	SN74LS74ANS (TI)				L103	1-421-329-00	s	CHOKE
IC32	8-759-907-81	s	SN74LS221NS (TI)				L104	1-421-329-00	s	CHOKE
IC33	8-759-907-81	s	SN74LS221NS (TI)				L350	1-410-470-11	s	MICRO 10
IC34	8-759-205-06	s	TC74HC74F (TOSHIBA)				L351	1-410-470-11	s	MICRO 10
IC35	8-759-030-16	s	MC34182M (MOTOROLA)				L352	1-410-468-11	s	MICRO 6.8
IC36	8-759-907-81	s	SN74LS221NS (TI)				L601	1-410-482-31	s	MICRO 100
							L602	1-410-478-11	s	MICRO 47
							L603	1-410-478-11	s	MICRO 47

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

Q1 8-729-100-66 s 2SC1623
 Q2 8-729-100-76 s 2SA812
 Q3 8-729-102-07 s 2SC2223
 Q4 8-729-100-66 s 2SC1623
 Q5 8-729-102-07 s 2SC2223

Q6 8-729-100-66 s 2SC1623
 Q7 8-729-100-76 s 2SA812
 Q8 8-729-100-66 s 2SC1623
 Q9 8-729-100-66 s 2SC1623
 Q10 8-729-100-66 s 2SC1623

Q11 8-729-100-66 s 2SC1623
 Q12 8-729-102-07 s 2SC2223
 Q13 8-729-100-76 s 2SA812
 Q14 8-729-100-76 s 2SA812
 Q16 8-729-122-63 s 2SA1226

Q18 8-729-100-66 s 2SC1623
 Q25 8-729-100-66 s 2SC1623
 Q601 8-729-100-66 s 2SC1623
 Q602 8-729-100-76 s 2SA812
 Q603 8-729-100-66 s 2SC1623

Q604 8-729-100-66 s 2SC1623
 Q605 8-729-100-66 s 2SC1623

R3 1-216-654-11 s METAL CHIP 1.3k 0.50% 1/10W
 R4 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R5 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R6 1-216-654-11 s METAL CHIP 1.3k 0.50% 1/10W
 R14 1-216-687-11 s METAL CHIP 33k 0.50% 1/10W

R15 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R18 1-216-627-11 s METAL CHIP 100 0.50% 1/10W
 R22 1-216-644-11 s METAL CHIP 510 0.50% 1/10W
 R23 1-216-644-11 s METAL CHIP 510 0.50% 1/10W
 R27 1-216-643-11 s METAL CHIP 470 0.50% 1/10W

R29 1-216-641-11 s METAL CHIP 390 0.50% 1/10W
 R30 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R31 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R33 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R39 1-216-639-11 s METAL CHIP 330 0.50% 1/10W

R40 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R41 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R42 1-216-651-11 s METAL CHIP 1.3k 0.50% 1/10W
 R48 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R49 1-216-687-11 s METAL CHIP 33k 0.50% 1/10W

R52 1-216-687-11 s METAL CHIP 33k 0.50% 1/10W
 R53 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R54 1-216-627-11 s METAL CHIP 100 0.50% 1/10W
 R55 1-216-627-11 s METAL CHIP 100 0.50% 1/10W
 R56 1-216-658-11 s METAL CHIP 2k 0.50% 1/10W

R57 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R58 1-216-666-11 s METAL CHIP 4.3k 0.50% 1/10W
 R59 1-216-624-11 s METAL CHIP 75 0.50% 1/10W
 R60 1-216-687-11 s METAL CHIP 33k 0.50% 1/10W
 R61 1-216-645-11 s METAL CHIP 560 0.50% 1/10W

R62 1-216-627-11 s METAL CHIP 100 0.50% 1/10W
 R63 1-216-627-11 s METAL CHIP 100 0.50% 1/10W
 R65 1-216-634-11 s METAL CHIP 200 0.50% 1/10W
 R71 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R72 1-216-631-11 s METAL CHIP 150 0.50% 1/10W

R73 1-216-658-11 s METAL CHIP 2k 0.50% 1/10W
 R74 1-216-666-11 s METAL CHIP 4.3k 0.50% 1/10W
 R75 1-216-624-11 s METAL CHIP 75 0.50% 1/10W
 R86 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R87 1-216-674-11 s METAL CHIP 9.1k 0.50% 1/10W

Ref.No. Parts No. SP Description

R96 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R97 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R98 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R99 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R100 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W

R101 1-216-638-11 s METAL CHIP 300 0.50% 1/10W
 R102 1-216-693-11 s METAL CHIP 56k 0.50% 1/10W
 R103 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
 R105 1-216-684-11 s METAL CHIP 24k 0.50% 1/10W
 R106 1-216-685-11 s METAL CHIP 27k 0.50% 1/10W

R107 1-216-668-11 s METAL CHIP 5.1k 0.50% 1/10W
 R119 1-216-669-11 s METAL CHIP 5.6k 0.50% 1/10W
 R120 1-216-669-11 s METAL CHIP 5.6k 0.50% 1/10W
 R121 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R122 1-216-643-11 s METAL CHIP 470 0.50% 1/10W

R123 1-216-665-11 s METAL CHIP 3.9k 0.50% 1/10W
 R124 1-216-671-11 s METAL CHIP 6.8k 0.50% 1/10W
 R125 1-216-663-11 s METAL CHIP 3.3k 0.50% 1/10W
 R127 1-216-692-11 s METAL CHIP 51k 0.50% 1/10W
 R128 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W

R129 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
 R157 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R158 1-216-673-11 s METAL CHIP 8.2k 0.50% 1/10W
 R163 1-216-682-11 s METAL CHIP 20k 0.50% 1/10W
 R164 1-216-679-11 s METAL CHIP 15k 0.50% 1/10W

R167 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R168 1-216-699-11 s METAL CHIP 100k 0.50% 1/10W
 R170 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R172 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R180 1-216-687-11 s METAL CHIP 33k 0.50% 1/10W

R181 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R182 1-216-627-11 s METAL CHIP 100 0.50% 1/10W
 R183 1-216-627-11 s METAL CHIP 100 0.50% 1/10W
 R187 1-216-611-11 s METAL CHIP 22 0.50% 1/10W
 R188 1-216-619-11 s METAL CHIP 47 0.50% 1/10W

R189 1-216-638-11 s METAL CHIP 300 0.50% 1/10W
 R190 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R191 1-216-658-11 s METAL CHIP 2k 0.50% 1/10W
 R192 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W
 R193 1-216-624-11 s METAL CHIP 75 0.50% 1/10W

R195 1-216-647-11 s METAL CHIP 680 0.50% 1/10W
 R196 1-216-658-11 s METAL CHIP 2k 0.50% 1/10W
 R210 1-216-649-11 s METAL CHIP 820 0.50% 1/10W
 R211 1-216-649-11 s METAL CHIP 820 0.50% 1/10W
 R212 1-216-629-11 s METAL CHIP 120 0.50% 1/10W

R213 1-216-629-11 s METAL CHIP 120 0.50% 1/10W
 R232 1-216-669-11 s METAL CHIP 5.6k 0.50% 1/10W
 R233 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R234 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
 R235 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W

R236 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R237 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R238 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
 R239 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R244 1-216-692-11 s METAL CHIP 51k 0.50% 1/10W

R350 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R351 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R352 1-216-647-11 s METAL CHIP 680 0.50% 1/10W
 R353 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R354 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W

R355 1-216-647-11 s METAL CHIP 680 0.50% 1/10W
 R356 1-216-649-11 s METAL CHIP 820 0.50% 1/10W
 R360 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R601 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
 R603 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
R604	1-216-665-11	s	METAL CHIP 3.9k 0.50% 1/10W
R605	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R608	1-216-627-11	s	METAL CHIP 100 0.50% 1/10W
R609	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R610	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R611	1-216-627-11	s	METAL CHIP 100 0.50% 1/10W
R612	1-216-671-11	s	METAL CHIP 6.8k 0.50% 1/10W
R613	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R614	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R615	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R617	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R619	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R621	1-216-634-11	s	METAL CHIP 200 0.50% 1/10W
R701	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R702	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R703	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W
R705	1-216-681-11	s	METAL CHIP 18k 0.50% 1/10W
R706	1-216-649-11	s	METAL CHIP 820 0.50% 1/10W
R707	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R708	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
R709	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W
R710	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W
R711	1-216-681-11	s	METAL CHIP 18k 0.50% 1/10W
R712	1-216-647-11	s	METAL CHIP 680 0.50% 1/10W
R713	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R714	1-216-643-11	s	METAL CHIP 470 0.50% 1/10W
R720	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W
RV1	1-237-515-21	s	VAR, CERMET 1k
RV2	1-237-503-21	s	VAR, CERMET 10k
RV4	1-237-514-21	s	VAR, CERMET 500
RV5	1-237-514-21	s	VAR, CERMET 500
RV6	1-237-503-21	s	VAR, CERMET 10k
RV12	1-237-515-21	s	VAR, CERMET 1k
RV13	1-237-518-21	s	VAR, CERMET 10k
RV14	1-237-514-21	s	VAR, CERMET 500
RV17	1-237-518-21	s	VAR, CERMET 10k
RV19	1-237-517-21	s	VAR, CERMET 5k
RV20	1-237-516-21	s	VAR, CERMET 2k
RV21	1-237-518-21	s	VAR, CERMET 10k
RV22	1-237-517-21	s	VAR, CERMET 5k
RV25	1-237-519-21	s	VAR, CERMET 20k
RV26	1-237-520-21	s	VAR, CERMET 50k
RV27	1-237-518-21	s	VAR, CERMET 10k
RV28	1-237-517-21	s	VAR, CERMET 5k
RV30	1-237-503-21	s	VAR, CERMET 10k
RV31	1-237-503-21	s	VAR, CERMET 10k
RV32	1-237-516-21	s	VAR, CERMET 2k
RV33	1-237-512-21	s	VAR, CERMET 100
RV34	1-237-512-21	s	VAR, CERMET 100
RV35	1-230-838-11	s	VAR, METAL FILM 200
RV36	1-230-838-11	s	VAR, METAL FILM 200
RV40	1-237-503-21	s	VAR, CERMET 10k
RV41	1-230-838-11	s	VAR, CERMET 200
RV42	1-230-838-11	s	VAR, CERMET 200
RV203	1-237-501-21	s	VAR, CERMET 2k
RV601	1-237-518-21	s	VAR, CERMET 10k
RV602	1-237-505-21	s	VAR, CERMET 50k
RV701	1-237-517-21	s	VAR, CERMET 5k
RV702	1-237-517-21	s	VAR, CERMET 5k

Ref.No.	Parts No.	SP	Description
S1	1-570-857-11	s	SLIDE
S2	1-570-857-11	s	SLIDE
TH201	1-800-202-XX	s	S-10K
X1	1-577-089-11	s	OSCILLATOR 14.31818MHz
X201	1-577-089-11	s	OSCILLATOR 14.31818MHz

EX-116 BOARD

A-6729-474-A s MOUNTED CIRCUIT BOARD, EX-116

CN1	1-506-748-11	o	DIN 96P
CN2	1-506-748-11	o	DIN 96P
CN3	1-563-341-11	o	HOUSING, DIN 96P
CN4	1-563-341-11	o	HOUSING, DIN 96P

EX-134 BOARD

A-6729-475-A s MOUNTED CIRCUIT BOARD, EX-134

CN1	1-506-748-11	o	DIN 96P
CN2	1-563-341-11	o	HOUSING, DIN 96P

EX-151 BOARD

A-6729-476-A s MOUNTED CIRCUIT BOARD, EX-151

CN1	1-506-748-11	o	DIN 96P
CN2	1-506-746-11	o	DIN 96P
CN3	1-563-341-11	o	HOUSING, DIN 96P
	1-563-339-11	o	HOUSING, DIN 48P

FL-61 BOARD

All the component parts on the FL-61 board are supplied together when you order the AFM-1 board.

1-624-393-11 o PRINTED CITCUIT BOARD, FL-61

CN101	1-564-983-11	o	B-B 8P
CN102	1-506-653-11	o	B-B 5P

FL109 1-236-122-11 s LOW-PASS 25kHz

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
R101	1-216-658-11	s	METAL CHIP 2k 0.50% 1/10W
R102	1-216-658-11	s	METAL CHIP 2k 0.50% 1/10W

HC-11 BOARD

1-622-595-11 o PRINTED CIRCUIT BOARD, HC-11

3-174-974-01 o CASE, SHIELD TIMER

CPI 1-548-152-11 o HOURS METER

HP-33 BOARD

1-622-590-13 o PRINTED CIRCUIT BOARD, HP-33

C2	1-124-236-00	s	ELECT 47 20% 10V
C3	1-124-236-00	s	ELECT 47 20% 10V

IC1	8-759-745-56	s	NJM4556D (JRC)
IC2	8-759-900-72	s	NE5532P (SEGNETICS)

J1 1-507-863-31 s LARGE TYPE

R6	1-247-739-11	s	CARBON 100 5% 1/2W
R10	1-247-739-11	s	CARBON 100 5% 1/2W

KY-107 BOARD

All the component parts on the KY-107 board are supplied together when you order the key chassis ass'y.

1-622-554-11 o PRINTED CIRCUIT BOARD, KY-107

S32	1-552-539-00	s	KEY BOARD
S33	1-552-539-00	s	KEY BOARD
S34	1-552-539-00	s	KEY BOARD

KY-108 BOARD

All the component parts on the KY-107 board are supplied together when you order the key chassis ass'y.

1-622-555-11 o PRINTED CIRCUIT BOARD, KY-108

D54 8-719-800-94 s TLUR144

Ref.No.	Parts No.	SP	Description
S35	1-552-539-00	s	KEY BOARD
S36	1-552-539-00	s	KEY BOARD
S37	1-552-539-00	s	KEY BOARD
S38	1-552-539-00	s	KEY BOARD

KY-96 BOARD

All the component parts on the KY-96 board are supplied together when you order the key chassis ass'y.

C1	1-124-252-00	s	ELECT 0.33 20% 50V
C2	1-124-252-00	s	ELECT 0.33 20% 50V
C4	1-126-176-11	s	ELECT 220 10V
C6	1-126-176-11	s	ELECT 220 10V
C13	1-124-462-00	s	ELECT 10 20% 16V

C14	1-162-210-31	s	CERAMIC 30pF
C15	1-162-210-31	s	CERAMIC 30pF
C16	1-162-210-31	s	CERAMIC 30pF
C17	1-162-210-31	s	CERAMIC 30pF
C18	1-126-176-11	s	ELECT 220 10V

C19	1-126-176-11	s	ELECT 220 10V
C20	1-124-462-00	s	ELECT 10 20% 16V
C21	1-124-462-00	s	ELECT 10 20% 16V
C22	1-124-462-00	s	ELECT 10 20% 16V
C23	1-124-462-00	s	ELECT 10 20% 16V

C24	1-124-462-00	s	ELECT 10 20% 16V
C25	1-124-462-00	s	ELECT 10 20% 16V
C26	1-124-462-00	s	ELECT 10 20% 16V
C27	1-124-462-00	s	ELECT 10 20% 16V
C28	1-124-462-00	s	ELECT 10 20% 16V

C29	1-124-462-00	s	ELECT 10 20% 16V
C30	1-124-462-00	s	ELECT 10 20% 16V
C31	1-124-462-00	s	ELECT 10 20% 16V
C32	1-124-462-00	s	ELECT 10 20% 16V
C33	1-124-462-00	s	ELECT 10 20% 16V

C34	1-124-462-00	s	ELECT 10 20% 16V
C35	1-124-462-00	s	ELECT 10 20% 16V
C36	1-124-462-00	s	ELECT 10 20% 16V
C37	1-124-462-00	s	ELECT 10 20% 16V
C38	1-124-462-00	s	ELECT 10 20% 16V

C39	1-124-462-00	s	ELECT 10 20% 16V
C40	1-124-462-00	s	ELECT 10 20% 16V
C41	1-124-462-00	s	ELECT 10 20% 16V
C42	1-124-462-00	s	ELECT 10 20% 16V
C43	1-124-462-00	s	ELECT 10 20% 16V

C44	1-124-252-00	s	ELECT 0.33 20% 50V
C45	1-126-176-11	s	ELECT 220 10V
C46	1-124-462-00	s	ELECT 10 20% 16V

D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-109-51	s	RD2.0ES-B2
D5	8-719-109-51	s	RD2.0ES-B2

D6	8-719-109-51	s	RD2.0ES-B2
D7	8-719-109-51	s	RD2.0ES-B2
D8	8-719-109-51	s	RD2.0ES-B2
D9	8-719-109-51	s	RD2.0ES-B2
D10	8-719-109-51	s	RD2.0ES-B2

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

D11 8-719-911-19 s 1SS119
 D12 8-719-911-19 s 1SS119
 D13 8-719-911-19 s 1SS119
 D14 8-719-911-19 s 1SS119
 D15 8-719-911-19 s 1SS119

D16 8-719-911-19 s 1SS119
 D17 8-719-911-19 s 1SS119
 D18 8-719-911-19 s 1SS119
 D19 8-719-911-19 s 1SS119
 D20 8-719-911-19 s 1SS119

D21 8-719-911-19 s 1SS119
 D22 8-719-911-19 s 1SS119
 D23 8-719-911-19 s 1SS119
 D24 8-719-911-19 s 1SS119
 D25 8-719-911-19 s 1SS119

D26 8-719-911-19 s 1SS119
 D27 8-719-911-19 s 1SS119
 D28 8-719-911-19 s 1SS119
 D29 8-719-911-19 s 1SS119
 D30 8-719-911-19 s 1SS119

D31 8-719-911-19 s 1SS119
 D32 8-719-911-19 s 1SS119
 D33 8-719-911-19 s 1SS119
 D34 8-719-911-19 s 1SS119
 D35 8-719-911-19 s 1SS119

D36 8-719-911-19 s 1SS119
 D37 8-719-911-19 s 1SS119
 D38 8-719-911-19 s 1SS119
 D39 8-719-911-19 s 1SS119
 D40 8-719-911-19 s 1SS119

D41 8-719-911-19 s 1SS119
 D42 8-719-911-19 s 1SS119
 D43 8-719-911-19 s 1SS119
 D44 8-719-911-19 s 1SS119
 D45 8-719-911-19 s 1SS119

D46 8-719-911-19 s 1SS119
 D47 8-719-911-19 s 1SS119
 D48 8-719-911-19 s 1SS119
 D49 8-719-802-11 s TLUG154
 D50 8-719-939-39 s GL-5HD8

D51 8-719-939-39 s GL-5HD8
 D52 8-719-939-39 s GL-5HD8
 D53 8-719-939-39 s GL-5HD8
 D55 8-719-939-39 s GL-5HD8
 D56 8-719-939-39 s GL-5HD8

D57 8-719-802-11 s TLUG154
 D58 8-719-939-39 s GL-5HD8
 D59 8-719-802-11 s TLUG154

IC1 8-759-632-07 s M5237L (MITSUBISHI)
 IC2 8-759-708-05 s NJM78L05A (JRC)
 IC3 8-759-937-29 s MB88201R-539N (FUJITSU)
 IC4 8-759-605-23 s M50747H-601SP (MITSUBISHI)
 IC5 8-759-645-16 s M54516P (MITSUBISHI)

IC6 8-759-645-16 s M54516P (MITSUBISHI)
 IC7 8-759-645-16 s M54516P (MITSUBISHI)
 IC8 8-759-708-05 s NJM78L05A (JRC)

L1 1-412-533-11 s MICRO 47
 L2 1-412-533-11 s MICRO 47

Ref.No. Parts No. SP Description

1) Q1 8-729-205-32 s 2SB553-Y
 Q2 8-729-275-42 s 2SC2754
 Q3 8-729-275-42 s 2SC2754
 Q4 8-729-904-51 s DTB123EK
 Q5 8-729-904-51 s DTB123EK

Q6 8-729-904-51 s DTB123EK
 Q7 8-729-904-51 s DTB123EK
 Q8 8-729-904-51 s DTB123EK
 Q9 8-729-904-51 s DTB123EK
 Q10 8-729-904-51 s DTB123EK

Q12 8-729-133-34 s 2SB733
 Q13 8-729-133-34 s 2SB733
 Q14 8-729-133-34 s 2SB733
 Q15 8-729-133-34 s 2SB733
 Q16 8-729-133-34 s 2SB733

Q17 8-729-133-34 s 2SB733
 Q18 8-729-133-34 s 2SB733
 Q19 8-729-133-34 s 2SB733
 Q20 8-729-900-67 s DTA124XS
 Q21 8-729-900-67 s DTA124XS

Q22 8-729-900-67 s DTA124XS
 Q23 8-729-900-67 s DTA124XS
 Q24 8-729-900-67 s DTA124XS
 Q25 8-729-900-67 s DTA124XS
 Q26 8-729-900-67 s DTA124XS

Q27 8-729-900-67 s DTA124XS
 Q28 8-729-900-67 s DTA124XS
 Q29 8-729-900-67 s DTA124XS
 Q30 8-729-900-67 s DTA124XS
 Q31 8-729-900-67 s DTA124XS

Q32 8-729-900-67 s DTA124XS
 Q33 8-729-900-67 s DTA124XS
 Q34 8-729-199-92 s 2SD999
 Q35 8-729-900-51 s DTA114TK
 Q36 8-729-199-92 s 2SD999

Q37 8-729-900-51 s DTA114TK
 Q38 8-729-199-92 s 2SD999
 Q39 8-729-900-51 s DTA114TK
 Q40 8-729-199-92 s 2SD999
 Q41 8-729-900-51 s DTA114TK

Q42 8-729-199-92 s 2SD999
 Q43 8-729-900-51 s DTA114TK
 Q44 8-729-199-92 s 2SD999
 Q45 8-729-900-51 s DTA114TK
 Q46 8-729-199-92 s 2SD999

Q47 8-729-900-51 s DTA114TK
 Q48 8-729-199-92 s 2SD999
 Q49 8-729-900-51 s DTA114TK
 Q50 8-729-199-92 s 2SD999
 Q51 8-729-900-51 s DTA114TK

Q52 8-729-199-92 s 2SD999
 Q53 8-729-900-51 s DTA114TK
 Q54 8-729-199-92 s 2SD999
 Q55 8-729-900-51 s DTA114TK
 Q56 8-729-199-92 s 2SD999

Q57 8-729-900-51 s DTA114TK
 Q58 8-729-199-92 s 2SD999
 Q59 8-729-900-51 s DTA114TK
 Q60 8-729-199-92 s 2SD999
 Q61 8-729-900-51 s DTA114TK

Q62 8-729-199-92 s 2SD999
 Q63 8-729-900-51 s DTA114TK
 Q64 8-729-199-92 s 2SD999
 Q65 8-729-900-51 s DTA114TK
 Q66 8-729-199-92 s 2SD999

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

Q67 8-729-900-51 s DTAL14TK
 Q68 8-729-199-92 s 2SD999
 Q69 8-729-900-51 s DTAL14TK
 Q70 8-729-199-92 s 2SD999
 Q71 8-729-900-51 s DTAL14TK

Q72 8-729-199-92 s 2SD999
 Q73 8-729-900-51 s DTAL14TK
 Q74 8-729-199-92 s 2SD999
 Q75 8-729-900-51 s DTAL14TK
 Q76 8-729-199-92 s 2SD999

Q77 8-729-900-51 s DTAL14TK
 Q78 8-729-199-92 s 2SD999
 Q79 8-729-900-51 s DTAL14TK
 Q80 8-729-199-92 s 2SD999
 Q81 8-729-600-27 s 2SC634SP

Q82 8-729-600-27 s 2SC634SP
 Q83 8-729-900-51 s DTAL14TK
 Q84 8-729-199-92 s 2SD999

R2 1-217-666-31 s SHORT 0.01 1/6W
 R62 1-247-700-11 s CARBON 100 5% 1/4W
 R63 1-247-700-11 s CARBON 100 5% 1/4W
 R64 1-247-700-11 s CARBON 100 5% 1/4W
 R65 1-247-700-11 s CARBON 100 5% 1/4W

R66 1-247-700-11 s CARBON 100 5% 1/4W
 R67 1-247-700-11 s CARBON 100 5% 1/4W
 R68 1-247-700-11 s CARBON 100 5% 1/4W
 R69 1-247-700-11 s CARBON 100 5% 1/4W
 R70 1-247-700-11 s CARBON 100 5% 1/4W

R71 1-247-700-11 s CARBON 100 5% 1/4W
 R110 1-247-702-11 s CARBON 150 5% 1/4W
 R113 1-247-702-11 s CARBON 150 5% 1/4W
 R116 1-247-702-11 s CARBON 150 5% 1/4W
 R119 1-247-702-11 s CARBON 150 5% 1/4W

R122 1-247-702-11 s CARBON 150 5% 1/4W
 R141 1-247-702-11 s CARBON 150 5% 1/4W
 R144 1-247-702-11 s CARBON 150 5% 1/4W
 R147 1-247-702-11 s CARBON 150 5% 1/4W
 R150 1-247-702-11 s CARBON 150 5% 1/4W

R153 1-247-702-11 s CARBON 150 5% 1/4W
 R156 1-247-702-11 s CARBON 150 5% 1/4W

S1 1-571-169-11 s TACTIL
 S2 1-571-169-21 s TACTIL
 S3 1-571-167-41 s TACTIL
 S4 1-571-167-31 s TACTIL
 S5 1-571-167-21 s TACTIL

S6 1-571-167-11 s TACTIL
 S7 1-571-167-11 s TACTIL
 S8 1-571-168-21 s TACTIL
 S9 1-571-167-11 s TACTIL
 S10 1-571-280-11 s TACTIL

S11 1-571-280-11 s TACTIL
 S12 1-571-280-11 s TACTIL
 S13 1-571-280-11 s TACTIL
 S14 1-571-280-11 s TACTIL
 S15 1-571-280-11 s TACTIL

S16 1-571-167-11 s TACTIL
 S17 1-571-167-11 s TACTIL
 S18 1-571-168-11 s TACTIL
 S19 1-571-167-11 s TACTIL
 S20 1-516-995-00 s LEVER SLIDE

Ref.No. Parts No. SP Description

S21 1-571-280-11 s TACTIL
 S22 1-571-280-11 s TACTIL
 S23 1-571-280-11 s TACTIL
 S24 1-571-280-11 s TACTIL
 S25 1-571-280-11 s TACTIL

S26 1-516-995-00 s LEVER SLIDE
 S27 1-516-961-00 s LEVER SLIDE
 S28 1-516-961-00 s LEVER SLIDE

X1 1-567-869-11 s VIBRATOR 9.83MHz
 X2 1-567-192-11 s OSCILLATOR 4.00MHz

MB-116 BOARD

A-6725-557-A o MOUNTED CIRCUIT BOARD, MB-116

1-562-210-11 s CONTACT

CN101 1-565-910-11 s HOUSING, DIN 96P
 CN102 1-565-910-11 s HOUSING, DIN 96P
 CN103 1-565-910-11 s HOUSING, DIN 96P
 CN104 1-565-910-11 s HOUSING, DIN 96P
 CN105 1-565-910-11 s HOUSING, DIN 96P

CN106 1-565-909-11 s HOUSING, DIN 48P
 CN107 1-565-910-11 s HOUSING, DIN 96P
 CN108 1-565-909-11 s HOUSING, DIN 48P
 CN109 1-565-910-11 s HOUSING, DIN 96P
 CN110 1-565-909-11 s HOUSING, DIN 48P

CN111 1-565-910-11 s HOUSING, DIN 96P
 CN112 1-565-909-11 s HOUSING, DIN 48P
 CN113 1-565-910-11 s HOUSING, DIN 96P
 CN123 1-566-342-11 s HEADER 30P
 CN125 1-566-394-21 o 8P

CN137 1-566-398-21 o 16P
 CN202 1-565-910-11 s HOUSING, DIN 96P
 CN203 1-565-910-11 s HOUSING, DIN 96P
 CN204 1-565-910-11 s HOUSING, DIN 96P
 CN205 1-565-910-11 s HOUSING, DIN 96P

CN206 1-565-910-11 s HOUSING, DIN 96P
 CN207 1-565-910-11 s HOUSING, DIN 96P
 CN208 1-565-910-11 s HOUSING, DIN 96P
 CN209 1-565-910-11 s HOUSING, DIN 96P
 CN210 1-565-910-11 s HOUSING, DIN 96P

CN211 1-566-312-11 s HEADER 50P
 CN212 1-566-312-11 s HEADER 50P
 CN213 1-564-199-00 o PIN HEADER, ANGLE 6P
 CN214 1-564-201-00 o PIN HEADER, ANGLE 10P
 CN215 1-566-405-11 o 30P

CN225 1-566-405-11 o 30P
 CN236 1-566-396-21 o 12P
 CN237 1-566-405-21 o 30P
 CN431 1-562-833-11 o HOUSING 7P
 CN432 1-562-800-11 o HOUSING 9P

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

IB-117, MD-46

Ref.No. Parts No. SP Description

MB-117 BOARD

A-6725-558-A o MOUNTED CIRCUIT BOARD, MB-117

CN301 1-565-910-11 s HOUSING, DIN 96P
CN302 1-565-910-11 s HOUSING, DIN 96P
CN303 1-565-910-11 s HOUSING, DIN 96P
CN304 1-565-910-11 s HOUSING, DIN 96P
CN306 1-566-343-11 o HEADER 40P

CN307 1-566-496-11 o HEADER 50P
CN308 1-566-496-11 o HEADER 50P
CN310 1-566-311-11 s HEADER 10P
CN316 1-508-906-00 o M 10P

MD-46 BOARD

13) This board includes the DUS-272Y and DUS-272C boards.

A-6711-814-A o MOUNTED CIRCUIT BOARD, MD-46

C8 1-163-270-11 s CERAMIC 629pF 5% 50V
C10 1-124-462-00 s ELECT 10 20% 16V
C14 1-124-224-00 s ELECT 47 20% 6.3V
C18 1-124-462-00 s ELECT 10 20% 16V
C45 1-124-224-00 s ELECT 47 20% 6.3V

C100 1-124-224-00 s ELECT 47 20% 6.3V
C105 1-124-462-00 s ELECT 10 20% 16V
C136 1-124-224-00 s ELECT 47 20% 6.3V
C200 1-124-224-00 s ELECT 47 20% 6.3V
C206 1-124-471-00 s ELECT 1000 20% 6.3V

C207 1-124-471-00 s ELECT 1000 20% 6.3V
C209 1-126-103-11 s ELECT 470 20% 16V
C214 1-126-103-11 s ELECT 470 20% 16V
C296 1-162-890-11 s CERAMIC 820pF 5% 50V
C301 1-162-890-11 s CERAMIC 820pF 5% 50V

C305 1-124-224-00 s ELECT 47 20% 6.3V
C306 1-124-443-00 s ELECT 100 20% 6.3V
C308 1-124-443-00 s ELECT 100 20% 6.3V
C506 1-163-119-00 s CERAMIC 120pF 5% 50V
C507 1-163-119-00 s CERAMIC 120pF 5% 50V

CN104 1-506-748-11 s DIN 96P

D1 8-719-109-99 s RD7.5ES-B
D2 8-719-101-23 s 1SS123
D4 8-719-101-23 s 1SS123
D5 8-719-101-23 s 1SS123
D6 8-719-101-23 s 1SS123
D7 8-719-101-23 s 1SS123
D9 8-719-101-23 s 1SS123

FB1 1-535-178-00 s FERRITE BEAD
FB2 1-535-178-00 s FERRITE BEAD
FB3 1-535-178-00 s FERRITE BEAD
FB4 1-535-178-00 s FERRITE BEAD
FB100 1-535-178-00 s FERRITE BEAD

Ref.No. Parts No. SP Description

FB101 1-535-178-00 s FERRITE BEAD
FB102 1-535-178-00 s FERRITE BEAD
FB103 1-535-178-00 s FERRITE BEAD

FL1 1-236-067-12 s FILTER
FL2 1-236-068-12 s FILTER
FL3 1-236-387-11 s LOW-PASS 7.0MHz
FL4 1-236-387-11 s LOW-PASS 7.0MHz

IC1 8-752-030-81 s CXA1040M (SONY)
IC2 8-752-030-80 s CXA1039M (SONY)
8-741-158-90 s SBX1589 (SONY)
IC3 8-752-030-82 s CXA1041M (SONY)
IC4 8-752-015-81 s CX20158 (SONY)

IC6 8-759-907-81 s SN74LS221NS (TI)
IC7 8-752-030-81 s CXA1040M (SONY)
IC8 8-752-030-80 s CXA1039M (SONY)
8-741-158-90 s SBX1589 (SONY)
IC9 8-752-030-82 s CXA1041M (SONY)

IC13 8-759-907-81 s SN74LS221NS (TI)
IC14 8-759-982-34 s RC78M09FA (RAYTHEON)
IC15 8-759-982-31 s RC78M05FA (RAYTHEON)
IC16 8-759-982-38 s RC7905FA (RAYTHEON)
IC18 8-759-204-94 s TC74HC00F (TOSHIBA)

IC20 8-759-204-98 s TC74HC08F (TOSHIBA)
IC21 8-752-015-81 s CX20158 (SONY)
IC22 8-752-015-81 s CX20158 (SONY)
IC25 8-759-908-15 s TL431CLP (TI)
IC26 8-759-908-15 s TL431CLP (TI)

IC27 8-759-908-15 s TL431CLP (TI)
IC28 8-759-908-15 s TL431CLP (TI)
IC30 8-759-908-15 s TL431CLP (TI)
IC31 8-759-908-15 s TL431CLP (TI)
IC32 8-752-006-10 s CX20061 (SONY)

IC33 8-752-006-13 s CX20061 (SONY)
IC34 8-752-006-13 s CX20061 (SONY)
IC35 8-752-006-13 s CX20061 (SONY)
IC36 8-759-012-84 s MC14557BF (MOTOROLA)
IC37 8-759-907-81 s SN74LS221NS (TI)

IC38 8-759-907-81 s SN74LS221NS (TI)
IC39 8-759-907-81 s SN74LS221NS (TI)

L2 1-410-482-31 s MICRO 100
L3 1-410-482-31 s MICRO 100
L4 1-410-482-31 s MICRO 100
L5 1-410-482-31 s MICRO 100
L6 1-410-482-31 s MICRO 100

L9 1-410-482-31 s MICRO 100
L10 1-410-482-31 s MICRO 100
L12 1-410-478-11 s MICRO 47
L13 1-410-478-11 s MICRO 47
L17 1-410-482-31 s MICRO 100

L19 1-410-482-31 s MICRO 100
L20 1-410-482-31 s MICRO 100
L21 1-410-482-31 s MICRO 100
L22 1-410-482-31 s MICRO 100
L23 1-410-482-31 s MICRO 100

L26 1-410-482-31 s MICRO 100
L27 1-410-482-31 s MICRO 100
L28 1-410-482-31 s MICRO 100
L30 1-410-482-31 s MICRO 100
L31 1-410-478-11 s MICRO 47

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

L32 1-410-478-11 s MICRO 47
 L33 1-410-482-31 s MICRO 100
 L35 1-410-482-31 s MICRO 100
 L37 1-410-482-31 s MICRO 100
 L38 1-410-482-31 s MICRO 100

L40 1-410-482-31 s MICRO 100
 L41 1-410-478-11 s MICRO 47
 L42 1-410-478-11 s MICRO 47
 L43 1-410-482-31 s MICRO 100
 L45 1-410-482-31 s MICRO 100

L47 1-410-478-11 s MICRO 47
 L48 1-410-476-11 s MICRO 33
 L49 1-410-478-11 s MICRO 47
 L100 1-412-533-11 s MICRO 47
 L101 1-412-533-11 s MICRO 47

L102 1-412-533-11 s MICRO 47
 L103 1-412-533-11 s MICRO 47
 L301 1-410-482-31 s MICRO 100
 L303 1-410-482-31 s MICRO 100
 L304 1-410-482-31 s MICRO 100

Q1 8-729-931-02 s 2SC2413KQ
 Q2 8-729-201-65 s 2SC27150
 Q3 8-729-202-38 s 2SC3326N
 Q4 8-729-202-38 s 2SC3326N
 Q5 8-729-122-63 s 2SA1226

Q6 8-729-122-63 s 2SA1226
 Q7 8-729-122-63 s 2SA1226
 Q8 8-729-931-02 s 2SC2413KQ
 Q9 8-729-102-07 s 2SC2223
 Q10 8-729-102-07 s 2SC2223

Q11 8-729-102-07 s 2SC2223
 Q13 8-729-931-02 s 2SC2413KQ
 Q14 8-729-201-65 s 2SC27150
 Q15 8-729-202-38 s 2SC3326N
 Q16 8-729-202-38 s 2SC3326N

Q17 8-729-122-63 s 2SA1226
 Q18 8-729-122-63 s 2SA1226
 Q19 8-729-122-63 s 2SA1226
 Q20 8-729-931-02 s 2SC2413KQ
 Q21 8-729-102-07 s 2SC2223

Q24 8-729-931-02 s 2SC2413KQ
 Q25 8-729-931-02 s 2SC2413KQ
 Q26 8-729-931-02 s 2SC2413KQ
 Q27 8-729-931-02 s 2SC2413KQ
 Q28 8-729-931-02 s 2SC2413KQ

Q29 8-729-122-63 s 2SA1226
 Q30 8-729-122-63 s 2SA1226
 Q31 8-729-931-02 s 2SC2413KQ
 Q32 8-729-931-02 s 2SC2413KQ
 Q33 8-729-931-02 s 2SC2413KQ

Q34 8-729-122-63 s 2SA1226
 Q35 8-729-201-65 s 2SC27150
 Q36 8-729-201-65 s 2SC27150
 Q38 8-729-201-65 s 2SC27150
 Q39 8-729-201-65 s 2SC27150

Q40 8-729-201-65 s 2SC27150
 Q41 8-729-109-43 s 2SK94-X3
 Q42 8-729-109-43 s 2SK94-X3
 Q43 8-729-102-07 s 2SC2223
 Q44 8-729-122-63 s 2SA1226

Ref.No. Parts No. SP Description

Q45 8-729-102-07 s 2SC2223
 Q46 8-729-122-63 s 2SA1226
 Q47 8-729-931-02 s 2SC2413KQ
 Q48 8-729-931-02 s 2SC2413KQ
 Q49 8-729-202-38 s 2SC3326N

Q51 8-729-931-02 s 2SC2413KQ
 Q52 8-729-202-38 s 2SC3326N
 Q54 8-729-122-63 s 2SA1226
 Q55 8-729-931-02 s 2SC2413KQ
 Q56 8-729-202-38 s 2SC3326N

Q57 8-729-202-38 s 2SC3326N
 Q58 8-729-931-02 s 2SC2413KQ
 Q59 8-729-931-02 s 2SC2413KQ
 Q60 8-729-202-38 s 2SC3326N
 Q61 8-729-122-63 s 2SA1226

Q62 8-729-931-02 s 2SC2413KQ
 Q63 8-729-931-02 s 2SC2413KQ
 Q64 8-729-202-38 s 2SC3326N

R1 1-216-638-11 s METAL CHIP 300 0.50% 1/10W
 R6 1-216-619-11 s METAL CHIP 47 0.50% 1/10W
 R7 1-216-666-11 s METAL CHIP 4.3k 0.50% 1/10W
 R8 1-216-662-11 s METAL CHIP 3k 0.50% 1/10W
 R10 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W

R11 1-216-644-11 s METAL CHIP 510 0.50% 1/10W
 R12 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R13 1-216-684-11 s METAL CHIP 24k 0.50% 1/10W
 R15 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R19 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W

R20 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R28 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R29 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R30 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R31 1-216-665-11 s METAL CHIP 3.9k 0.50% 1/10W

R33 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R46 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R48 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R64 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R65 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W

R71 1-216-638-11 s METAL CHIP 300 0.50% 1/10W
 R80 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R82 1-216-684-11 s METAL CHIP 24k 0.50% 1/10W
 R83 1-216-683-11 s METAL CHIP 22k 0.50% 1/10W
 R88 1-216-684-11 s METAL CHIP 24k 0.50% 1/10W

R89 1-216-667-11 s METAL CHIP 4.7k 0.50% 1/10W
 R96 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R97 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R98 1-216-650-11 s METAL CHIP 910 0.50% 1/10W
 R99 1-216-669-11 s METAL CHIP 5.6k 0.50% 1/10W

R110 1-247-729-11 s CARBON 15 5% 1/2W
 R113 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R122 1-216-658-11 s METAL CHIP 2k 0.50% 1/10W
 R202 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
 R203 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W

R204 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W
 R205 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
 R206 1-216-672-11 s METAL CHIP 7.5k 0.50% 1/10W
 R211 1-216-669-11 s METAL CHIP 5.6k 0.50% 1/10W
 R213 1-216-687-11 s METAL CHIP 33k 0.50% 1/10W

R217 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
 R219 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W
 R220 1-216-672-11 s METAL CHIP 7.5k 0.50% 1/10W
 R221 1-216-669-11 s METAL CHIP 5.6k 0.50% 1/10W
 R222 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description			
R223	1-216-691-11	s	METAL CHIP 47k	0.50Z	1/10W	
R224	1-216-691-11	s	METAL CHIP 47k	0.50Z	1/10W	
R225	1-216-659-11	s	METAL CHIP 2.2k	0.50Z	1/10W	
R226	1-216-691-11	s	METAL CHIP 47k	0.50Z	1/10W	
R227	1-216-691-11	s	METAL CHIP 47k	0.50Z	1/10W	
R228	1-216-665-11	s	METAL CHIP 3.9k	0.50Z	1/10W	
R230	1-216-655-11	s	METAL CHIP 1.5k	0.50Z	1/10W	
R233	1-216-665-11	s	METAL CHIP 3.9k	0.50Z	1/10W	
R235	1-216-655-11	s	METAL CHIP 1.5k	0.50Z	1/10W	
R236	1-216-681-11	s	METAL CHIP 18k	0.50Z	1/10W	
R247	1-216-644-11	s	METAL CHIP 510	0.50Z	1/10W	
R250	1-216-674-11	s	METAL CHIP 9.1k	0.50Z	1/10W	
R251	1-216-643-11	s	METAL CHIP 470	0.50Z	1/10W	
R252	1-216-643-11	s	METAL CHIP 470	0.50Z	1/10W	
R253	1-247-697-11	s	CARBON 56	5Z	1/4W	
R254	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R256	1-216-635-11	s	METAL CHIP 220	0.50Z	1/10W	
R257	1-216-665-11	s	METAL CHIP 3.9k	0.50Z	1/10W	
R259	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R260	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R261	1-247-697-11	s	CARBON 56	5Z	1/4W	
R262	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R263	1-216-665-11	s	METAL CHIP 3.9k	0.50Z	1/10W	
R264	1-247-697-11	s	CARBON 56	5Z	1/4W	
R265	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R266	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R267	1-216-665-11	s	METAL CHIP 3.9k	0.50Z	1/10W	
R268	1-247-697-11	s	CARBON 56	5Z	1/4W	
R269	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R270	1-216-665-11	s	METAL CHIP 3.9k	0.50Z	1/10W	
R271	1-247-697-11	s	CARBON 56	5Z	1/4W	
R272	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R273	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R274	1-247-697-11	s	CARBON 56	5Z	1/4W	
R275	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R276	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R281	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R287	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R295	1-216-677-11	s	METAL CHIP 12k	0.50Z	1/10W	
R297	1-216-683-11	s	METAL CHIP 22k	0.50Z	1/10W	
R299	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R300	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W	
R302	1-216-644-11	s	METAL CHIP 510	0.50Z	1/10W	
R303	1-216-638-11	s	METAL CHIP 300	0.50Z	1/10W	
R309	1-216-644-11	s	METAL CHIP 510	0.50Z	1/10W	
R311	1-216-629-11	s	METAL CHIP 120	0.50Z	1/10W	
R312	1-216-629-11	s	METAL CHIP 120	0.50Z	1/10W	
R315	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R316	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R321	1-216-667-11	s	METAL CHIP 4.7k	0.50Z	1/10W	
R324	1-216-667-11	s	METAL CHIP 4.7k	0.50Z	1/10W	
R325	1-216-633-11	s	METAL CHIP 180	0.50Z	1/10W	
R326	1-216-633-11	s	METAL CHIP 180	0.50Z	1/10W	
R334	1-216-687-11	s	METAL CHIP 33k	0.50Z	1/10W	
R335	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W	
R346	1-216-666-11	s	METAL CHIP 4.3k	0.50Z	1/10W	
R347	1-216-666-11	s	METAL CHIP 4.3k	0.50Z	1/10W	
R348	1-216-666-11	s	METAL CHIP 4.3k	0.50Z	1/10W	
R349	1-216-666-11	s	METAL CHIP 4.3k	0.50Z	1/10W	
R350	1-216-671-11	s	METAL CHIP 6.8k	0.50Z	1/10W	

Ref.No.	Parts No.	SP	Description			
R362	1-216-658-11	s	METAL CHIP 2k	0.50Z	1/10W	
R406	1-216-649-11	s	METAL CHIP 820	0.50Z	1/10W	
R407	1-216-649-11	s	METAL CHIP 820	0.50Z	1/10W	
R408	1-216-679-11	s	METAL CHIP 15k	0.50Z	1/10W	
R409	1-216-687-11	s	METAL CHIP 33k	0.50Z	1/10W	
R412	1-216-640-11	s	METAL CHIP 360	0.50Z	1/10W	
R413	1-216-640-11	s	METAL CHIP 360	0.50Z	1/10W	
R414	1-216-603-11	s	METAL CHIP 10	0.50Z	1/10W	
R415	1-216-603-11	s	METAL CHIP 10	0.50Z	1/10W	
10) R416	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
9) R417	1-216-657-11	s	METAL CHIP 1.8k	0.50Z	1/10W	
10) R417	1-216-662-11	s	METAL CHIP 3k	0.50Z	1/10W	
9) R418	1-216-657-11	s	METAL CHIP 1.8k	0.50Z	1/10W	
10) R418	1-216-662-11	s	METAL CHIP 3k	0.50Z	1/10W	
10) R419	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W	
R502	1-216-603-11	s	METAL CHIP 10	0.50Z	1/10W	
RV1	1-237-514-21	s	VAR, CERMET	500		
RV3	1-237-505-21	s	VAR, CERMET	5k		
RV4	1-237-520-21	s	VAR, CERMET	50k		
RV5	1-237-520-21	s	VAR, CERMET	50k		
RV6	1-237-519-21	s	VAR, CERMET	20k		
RV7	1-237-518-21	s	VAR, CERMET	10k		
RV8	1-237-498-21	s	VAR, CERMET	200		
RV9	1-237-500-21	s	VAR, CERMET	1k		
RV13	1-237-502-21	s	VAR, CERMET	5k		
RV14	1-237-520-21	s	VAR, CERMET	50k		
RV15	1-237-520-21	s	VAR, CERMET	50k		
RV16	1-237-518-21	s	VAR, CERMET	10k		
RV17	1-237-518-21	s	VAR, CERMET	10k		
RV18	1-237-498-21	s	VAR, CERMET	200		
RV19	1-237-500-21	s	VAR, CERMET	1k		
RV22	1-237-503-21	s	VAR, CERMET	10k		
RV23	1-237-501-21	s	VAR, CERMET	2k		
RV33	1-237-514-21	s	VAR, CERMET	500		
9) RV37	1-237-514-21	s	VAR, CERMET	500		
10) RV37	1-237-515-21	s	VAR, CERMET	1k		
9) RV38	1-237-514-21	s	VAR, CERMET	500		
10) RV38	1-237-515-21	s	VAR, CERMET	1k		
RV39	1-237-514-21	s	VAR, CERMET	500		
RV40	1-237-520-21	s	VAR, CERMET	50k		
RV41	1-237-520-21	s	VAR, CERMET	50k		
RV42	1-237-506-21	s	VAR, CERMET	100k		
RV43	1-237-506-21	s	VAR, CERMET	100k		
RV44	1-237-520-21	s	VAR, CERMET	50k		
RV45	1-237-519-21	s	VAR, CERMET	20k		
RV46	1-237-520-21	s	VAR, CERMET	50k		
RV47	1-237-519-21	s	VAR, CERMET	20k		
RV50	1-237-516-21	s	VAR, CERMET	2k		
RV51	1-237-516-21	s	VAR, CERMET	2k		
RV52	1-237-517-21	s	VAR, CERMET	5k		
RV53	1-237-517-21	s	VAR, CERMET	5k		
RV54	1-237-515-21	s	VAR, CERMET	1k		
RV55	1-237-515-21	s	VAR, CERMET	1k		
RV56	1-237-515-21	s	VAR, CERMET	1k		
RV57	1-237-520-21	s	VAR, CERMET	50k		
RV58	1-237-520-21	s	VAR, CERMET	50k		

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

MD-46, NR-25, PC-33/41/47, PD-35, PT-9, PTC-15/20

Ref.No.	Parts No.	SP	Description
S1	1-553-977-00	s	SLIDE
S2	1-570-337-11	s	ROTARY (HEXADECIMAL)

TH1	1-800-200-00	s	S-3K
TH2	1-800-200-00	s	S-3K
TH3	1-800-200-00	s	S-3K
TH4	1-800-200-00	s	S-3K
TH5	1-800-198-XX	s	S-1K

TH6	1-800-198-XX	s	S-1K
TH11	1-800-202-XX	s	S-10K
TH12	1-800-202-XX	s	S-10K

X1	1-567-916-12	s	VIBRATOR 6.40MHz
X2	1-567-917-12	s	VIBRATOR 7.70MHz
X3	1-567-914-12	s	VIBRATOR 5.00MHz
X4	1-567-915-12	s	VIBRATOR 5.80MHz

NR-25 BOARD

All the component parts on the NR-25 board are supplied together when you order the TBC-8 board.

1-624-023-12 o PRINTED CIRCUIT BOARD, NR-25

C701	1-163-033-00	s	CERAMIC CHIP 0.022	50V
C702	1-163-033-00	s	CERAMIC CHIP 0.022	50V
C703	1-163-033-00	s	CERAMIC CHIP 0.022	50V
C704	1-163-033-00	s	CERAMIC CHIP 0.022	50V
C705	1-163-033-00	s	CERAMIC CHIP 0.022	50V
C706	1-163-033-00	s	CERAMIC CHIP 0.022	50V
C707	1-163-033-00	s	CERAMIC CHIP 0.022	50V
C708	1-163-033-00	s	CERAMIC CHIP 0.022	50V
C709	1-163-033-00	s	CERAMIC CHIP 0.022	50V

CN700	1-564-410-11	s	HEADER 40P
CN701	1-559-614-11	s	FLAT CABLE (40 CORE)

IC701	8-759-947-00	s	CXD1328Q (SONY)
IC702	8-752-322-72	s	CXK1202S (SONY)
IC703	8-752-322-72	s	CXK1202S (SONY)
IC704	8-752-322-72	s	CXK1202S (SONY)
IC705	8-759-205-16	s	TC74HC161F (TOSHIBA)

IC706	8-759-205-16	s	TC74HC161F (TOSHIBA)
IC707	8-751-205-22	s	TC74HC240F (TOSHIBA)
IC708	8-759-205-30	s	TC74HC273F (TOSHIBA)
IC709	8-759-207-25	s	TC74HC163F (TOSHIBA)

PC-33 BOARD

1-622-604-11 o PRINTED CIRCUIT BOARD, PC-33

D1	8-719-800-81	s	TLP801A
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Ref.No.	Parts No.	SP	Description
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PC-41 BOARD

1-623-267-11 o PRINTED CIRCUIT BOARD, PC-41

D1	8-719-800-81	s	TLP801A
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PC-47 BOARD

1-628-786-11 o PRINTED CIRCUIT BOARD, PC-47

D1	8-719-800-81	s	TLP801A
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PD-35 BOARD

1-622-596-11 o PRINTED CIRCUIT BOARD, PD-35

CN852	1-508-900-00	o	PIN 2P
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PT-9 BOARD

All the component parts on the PT-9 board are supplied together when you order the key chassis ass'y.

1-605-018-00 o PRINTED CIRCUIT BOARD, PT-9

Q1	8-729-882-52	s	2SB825-R
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PTC-15 BOARD

1-622-597-11 o PRINTED CIRCUIT BOARD, PTC-15

D1	8-719-800-81	s	TLP801A
D2	8-719-800-81	s	TLP801A

PTC-20 BOARD

1-622-598-11 o PRINTED CIRCUIT BOARD, PTC-20

Q1	8-729-116-45	s	PH110
Q2	8-729-116-45	s	PH110
Q3	8-729-116-45	s	PH110

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

TC-21/23/31/32/36, RE-28/34

Ref.No. Parts No. SP Description

PTC-21 BOARD

1-622-599-11 o PRINTED CIRCUIT BOARD, PTC-21

D1 8-719-800-81 s TLP801A
D2 8-719-800-81 s TLP801A

PTC-23 BOARD

1-622-600-11 o PRINTED CIRCUIT BOARD, PTC-23

D1 8-719-800-81 s TLP801A

PTC-31 BOARD

1-622-607-11 o PRINTED CIRCUIT BOARD, PTC-31

D1 8-719-941-47 s GP2805

PTC-32 BOARD

All the component parts on the PTC-32 board are supplied together when you order the key chassis ass'y.

1-622-638-12 o PRINTED CIRCUIT BOARD, PTC-32

C1 1-124-234-00 s ELECT 22 20% 10V

CN4 1-562-151-11 o 6P
1-564-026-00 s CONTACT, RECEPTACLE

IC1 8-719-939-50 s GP1L52 (SHARP)
IC2 8-719-939-50 s GP1L52 (SHARP)
IC3 8-719-940-86 s GP1L53 (SHARP)
IC4 8-719-939-50 s GP1L52 (SHARP)
IC5 8-759-133-90 s uPC339C (NEC)

PTC-36 BOARD

1-622-601-11 o PRINTED CIRCUIT BOARD, PTC-36

D1 8-719-123-69 s SE310
D2 8-719-123-69 s SE310
D3 8-719-123-69 s SE310

Ref.No. Parts No. SP Description

RE-28 BOARD

A-6715-354-A o MOUNTED CIRCUIT BOARD, RE-28

C9 1-124-360-00 s ELECT 1000 20% 16V

CN814 1-508-901-00 o M 3P
CN823 1-508-949-00 o M 12P

D1 8-719-200-02 s 10E2

IC1 8-759-108-77 s CX877 (SONY)

Q1 8-729-177-43 s 2SD774
Q2 8-729-376-84 s 2SA768-G
Q3 8-729-177-43 s 2SD774
Q4 8-729-247-33 s 2SA473
Q5 8-729-103-43 s 2SB734
Q6 8-729-177-43 s 2SD774

R1 1-247-887-00 s CARBON 220k 5% 1/4W

R5 1-216-389-11 s METAL 1 5% 3W
R10 1-215-866-11 s METAL 330 5% 1W

R12 1-247-887-00 s CARBON 220k 5% 1/4W

R13 1-216-386-11 s METAL 0.56 5% 3W

R14 1-247-739-11 s CARBON 100 5% 1/2W
R15 1-247-739-11 s CARBON 100 5% 1/2W

R16 1-216-389-11 s METAL 1 5% 3W

RE-34 BOARD

A-6711-806-A o MOUNTED CIRCUIT BOARD, RE-34

C4 1-109-546-00 s MICA 300pF 5% 50V
C5 1-162-889-11 s CERAMIC 680pF 5% 50V
C6 1-109-546-00 s MICA 300pF 5% 50V
C14 1-109-546-00 s MICA 300pF 5% 50V
C15 1-162-730-11 s CERAMIC 680pF 1% 50V

C16 1-109-546-00 s MICA 300pF 5% 50V
C21 1-124-236-00 s ELECT 47 20% 10V
C23 1-124-236-00 s ELECT 47 20% 10V

IC1 1-759-990-82 s TL082CP (T1)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

LV1 1-407-565-00 s VAR 2.2
 LV2 1-407-565-00 s VAR 2.2

Q1 8-729-600-60 s 2SA1115P
 Q2 8-729-378-84 s 2SD788
 Q3 8-729-378-84 s 2SD788
 Q4 8-729-600-27 s 2SC634SP
 Q5 8-729-600-60 s 2SA1115P

Q6 8-729-378-84 s 2SD788
 Q7 8-729-378-84 s 2SD788
 Q8 8-729-600-27 s 2SC634SP

RV1 1-237-498-21 s VAR, CERMET 200
 RV2 1-237-498-21 s VAR, CERMET 200

T1 1-433-194-00 s OSCILLATION
 T2 1-433-194-00 s OSCILLATION

RE-36 BOARD

△ A-6715-361-A o MOUNTED CIRCUIT BOARD, RE-36

C103 1-162-726-11 s CERAMIC 470pF 1% 50V
 C104 1-162-726-11 s CERAMIC 470pF 1% 50V
 C106 1-124-462-00 s ELECT 10 20% 16V
 C203 1-162-726-11 s CERAMIC 470pF 1% 50V
 C204 1-162-726-11 s CERAMIC 470pF 1% 50V

C206 1-124-462-00 s ELECT 10 20% 16V

CN802 1-563-233-11 o F.P.C 13P
 CN805 1-562-708-11 o SOCKET 13P
 CN806 1-508-901-00 o M 3P
 CN807 1-506-477-11 o 12P

D1 8-719-200-02 s 10E2
 D2 8-719-200-02 s 10E2

IC101 8-759-705-62 s NJM4562D-D (JRC)
 IC201 8-759-705-62 s NJM4562D-D (JRC)

L1 1-459-155-00 s 45 (WITH CORE)
 L2 1-459-155-00 s 45 (WITH CORE)

Q1 8-729-114-11 s 2SA1141
 Q2 8-729-177-43 s 2SD774
 Q3 8-729-103-43 s 2SB734
 Q4 8-729-102-57 s 2SC3012
 Q101 8-729-217-33 s 2SC1173

Ref.No. Parts No. SP Description

Q102 8-729-247-33 s 2SA473
 Q201 8-729-217-33 s 2SC1173
 Q202 8-729-247-33 s 2SA473

△ R2 1-215-864-00 s METAL 150 5% 1W
 R5 1-215-889-00 s METAL 330 5% 2W
 R101 1-215-863-11 s METAL 100 5% 1W
 R102 1-215-863-11 s METAL 100 5% 1W
 R103 1-216-365-00 s METAL 0.47 5% 2W

R108 1-247-895-00 s CARBON 470k 5% 1/4W
 R111 1-247-895-00 s CARBON 470k 5% 1/4W
 R113 1-247-887-00 s CARBON 220k 5% 1/4W

△ R201 1-215-863-11 s METAL 100 5% 1W
 R202 1-215-863-11 s METAL 100 5% 1W

△ R203 1-216-365-00 s METAL 0.47 5% 2W

R208 1-247-895-00 s CARBON 470k 5% 1/4W
 R211 1-247-895-00 s CARBON 470k 5% 1/4W
 R213 1-247-887-00 s CARBON 220k 5% 1/4W

RM-40 BOARD

1-622-605-11 o PRINTED CIRCUIT BOARD, RM-40

C1 1-102-363-00 s CERAMIC 0.001 50V
 C2 1-102-363-00 s CERAMIC 0.001 50V

CN3 1-562-708-11 o 13P

RM-48 BOARD

1-622-557-12 o PRINTED CIRCUIT BOARD, RM-48

CN450 1-559-263-11 o WIRE ASSY, FLAT TYPE(40 CORE)
 CN452 1-508-933-00 o POST HEADER, 2P
 CN453 1-561-028-00 s 36P
 CN454 1-563-890-11 s SOCKET, D-SUB 9P
 CN455 1-563-890-11 s SOCKET, D-SUB 9P
 CN456 1-566-441-11 s D-SUB 15P

FB1 1-535-178-00 s FERRITE BEAD
 FB2 1-535-178-00 s FERRITE BEAD

△ R1 1-215-906-11 s METAL 15 5% 3W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

RP-29 (C) / 29 (Y)

Ref.No. Parts No. SP Description

RP-29 (C) BOARD

A-6711-805-A o MOUNTED CIRCUIT BOARD, RP-29(C)

D101	8-719-100-05	s	1S2837
D102	8-719-100-05	s	1S2837
D103	8-719-100-05	s	1S2837
D104	8-719-100-05	s	1S2837
D105	8-719-109-60	s	RD2.7ES-B2
D106	8-719-100-05	s	1S2837
D107	8-719-100-05	s	1S2837
D108	8-719-100-05	s	1S2837
D109	8-719-100-05	s	1S2837
IC101	1-807-991-11	s	BH1806 (SONY)
IC102	1-807-991-11	s	BH1806 (SONY)
IC103	1-807-987-11	s	BH1802 (SONY)
IC104	1-807-987-11	s	BH1802 (SONY)
IC105	8-752-006-10	s	CX20061 (SONY)
IC106	8-752-006-13	s	CX20061 (SONY)
IC107	8-759-240-09	s	TC4009UBP (TOSHIBA)
IC108	8-759-240-09	s	TC4009UBP (TOSHIBA)
L101	1-410-482-31	s	MICRO 100
L102	1-410-482-31	s	MICRO 100
L103	1-410-482-31	s	MICRO 100
L104	1-410-482-31	s	MICRO 100
L105	1-410-482-31	s	MICRO 100

Q101	8-729-201-27	s	2SC2715Y
Q102	8-729-201-27	s	2SC2715Y
Q103	8-729-122-63	s	2SA1226
Q104	8-729-122-63	s	2SA1226
Q105	8-729-202-38	s	2SC3326N
Q106	8-729-202-38	s	2SC3326N
Q107	8-729-202-38	s	2SC3326N
Q108	8-729-201-27	s	2SC2715Y
Q109	8-729-122-63	s	2SA1226
Q110	8-729-122-63	s	2SA1226
Q111	8-729-202-38	s	2SC3326N
Q112	8-729-202-38	s	2SC3326N
Q113	8-729-202-38	s	2SC3326N
Q114	8-729-200-72	s	2SC2712L
R102	1-216-624-11	s	METAL CHIP 75 0.50% 1/10W
R109	1-216-603-11	s	METAL CHIP 10 0.50% 1/10W
R110	1-216-611-11	s	METAL CHIP 22 0.50% 1/10W
R111	1-216-611-11	s	METAL CHIP 22 0.50% 1/10W
R112	1-216-603-11	s	METAL CHIP 10 0.50% 1/10W
R126	1-216-603-11	s	METAL CHIP 10 0.50% 1/10W
R127	1-216-611-11	s	METAL CHIP 22 0.50% 1/10W
R128	1-216-611-11	s	METAL CHIP 22 0.50% 1/10W
R129	1-216-603-11	s	METAL CHIP 10 0.50% 1/10W
R160	1-217-666-31	s	SHORT 0.01 1/6W

Ref.No. Parts No. SP Description

RV101	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV102	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV103	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV104	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV105	1-226-769-00	s	VAR, METAL GLAZE 100
RV106	1-226-769-00	s	VAR, METAL GLAZE 100
RV107	1-226-771-11	s	VAR, METAL GLAZE 1k
RV108	1-226-771-11	s	VAR, METAL GLAZE 1k
RV109	1-226-771-11	s	VAR, METAL GLAZE 1k
RV110	1-226-771-11	s	VAR, METAL GLAZE 1k

RV111	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV112	1-226-702-00	s	VAR, METAL GLAZE 2.2k

SP101	1-560-733-00	s	PIN, SHORT
SP102	1-560-733-00	s	PIN, SHORT

SS101	1-561-832-00	s	SOCKET, SHORT
SS102	1-561-832-00	s	SOCKET, SHORT

T101	1-427-545-11	s	RF OUTPUT
T102	1-427-545-11	s	RF OUTPUT
T103	1-423-251-00	s	RF INPUT
T104	1-423-251-00	s	RF INPUT

RP-29 (Y) BOARD

A-6711-804-A o MOUNTED CIRCUIT BOARD, RP-29(Y)

D1	8-719-100-05	s	1S2837
D2	8-719-100-05	s	1S2837
D3	8-719-100-05	s	1S2837
D4	8-719-100-05	s	1S2837
D5	8-719-109-60	s	RD2.7ES-B2
D6	8-719-100-05	s	1S2837
D7	8-719-100-05	s	1S2837
D8	8-719-100-05	s	1S2837
D9	8-719-100-05	s	1S2837

IC1	1-807-991-11	s	BH1806 (SONY)
IC2	1-807-991-11	s	BH1806 (SONY)
IC3	1-807-987-11	s	BH1802 (SONY)
IC4	1-807-987-11	s	BH1802 (SONY)
IC5	8-752-006-10	s	CX20061 (SONY)

IC6	8-752-006-13	s	CX20061 (SONY)
IC7	8-759-240-09	s	TC4009UBP (TOSHIBA)
IC8	8-759-240-09	s	TC4009UBP (TOSHIBA)

L1	1-410-482-31	s	MICRO 100
L2	1-410-482-31	s	MICRO 100
L3	1-410-482-31	s	MICRO 100
L4	1-410-482-31	s	MICRO 100
L5	1-410-482-31	s	MICRO 100

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

Q1	8-729-201-27	s	2SC2715Y
Q2	8-729-201-27	s	2SC2715Y
Q3	8-729-122-63	s	2SA1 226
Q4	8-729-122-63	s	2SA1 226
Q5	8-729-202-38	s	2SC3326N
Q6	8-729-202-38	s	2SC3326N
Q7	8-729-202-38	s	2SC3326N
Q8	8-729-201-27	s	2SC2715Y
Q9	8-729-122-63	s	2SA1 226
Q10	8-729-122-63	s	2SA1 226
Q11	8-729-202-38	s	2SC3326N
Q12	8-729-202-38	s	2SC3326N
Q13	8-729-202-38	s	2SC3326N
Q14	8-729-200-72	s	2SC2712L
R2	1-216-624-11	s	METAL 75 0.50% 1/10W
R9	1-216-603-11	s	METAL 10 0.50% 1/10W
R10	1-216-611-11	s	METAL 22 0.50% 1/10W
R11	1-216-611-11	s	METAL 22 0.50% 1/10W
R12	1-216-603-11	s	METAL 10 0.50% 1/10W
R26	1-216-603-11	s	METAL 10 0.50% 1/10W
R27	1-216-611-11	s	METAL 22 0.50% 1/10W
R28	1-216-611-11	s	METAL 22 0.50% 1/10W
R29	1-216-603-11	s	METAL 10 0.50% 1/10W
RV1	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV2	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV3	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV4	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV5	1-226-769-00	s	VAR, METAL GLAZE 100
RV6	1-226-769-00	s	VAR, METAL GLAZE 100
RV7	1-226-771-11	s	VAR, METAL GLAZE 1k
RV8	1-226-771-11	s	VAR, METAL GLAZE 1k
RV9	1-226-771-11	s	VAR, METAL GLAZE 1k
RV10	1-226-771-11	s	VAR, METAL GLAZE 1k
RV11	1-226-702-00	s	VAR, METAL GLAZE 2.2k
RV12	1-226-702-00	s	VAR, METAL GLAZE 2.2k
SP1	1-560-733-00	s	PIN, SHORT
SP2	1-560-733-00	s	PIN, SHORT
SS1	1-561-832-00	s	SOCKET, SHORT
SS2	1-561-832-00	s	SOCKET, SHORT
T1	1-427-545-11	s	RF OUTPUT
T2	1-427-545-11	s	RF OUTPUT
T3	1-423-251-00	s	RF INPUT
T4	1-423-251-00	s	RF INPUT

Ref.No. Parts No. SP Description

SE-57 BOARD

A-6715-353-A o MOUNTED CIRCUIT BOARD, SE-57

C1	1-162-726-11	s	CERAMIC 470pF 1% 50V
C2	1-162-726-11	s	CERAMIC 470pF 1% 50V
C3	1-136-683-11	s	MYLAR 0.0056 2% 100V

D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119

IC1	8-759-729-03	s	NJM2903D (JRC)
IC2	8-759-345-38	s	HD14538BP (HITACHI)
IC3	8-759-145-58	s	uPC4558C (NEC)

Q1	8-729-178-55	s	2SC2785-E
Q2	8-729-820-14	s	2SD1913-RS
Q3	8-729-111-67	s	2SB1094L
Q4	8-729-178-55	s	2SC2785-E
Q5	8-729-117-54	s	2SA1175

Q6	8-729-178-55	s	2SC2785-E
Q7	8-729-178-55	s	2SC2785-E

R5	1-247-895-00	s	CARBON 470k 5% 1/4W
R14	1-247-887-00	s	CARBON 220k 5% 1/4W
R15	1-247-887-00	s	CARBON 220k 5% 1/4W
R29	1-216-347-11	s	METAL CHIP 0.68 5% 1W
R30	1-216-347-11	s	METAL CHIP 0.68 5% 1W

SV-82 BOARD

IC109 8-759-734-35 o C256A-BVW75 V1.20SV

A-6715-356-A o MOUNTED CIRCUIT BOARD, SV-82

C1	1-162-887-11	s	CERAMIC 470pF 5% 50V
C2	1-162-887-11	s	CERAMIC 470pF 5% 50V
C7	1-162-887-11	s	CERAMIC 470pF 5% 50V
C9	1-162-887-11	s	CERAMIC 470pF 5% 50V
C106	1-124-598-11	s	ELECT 22 20% 25V

C110	1-124-598-11	s	ELECT 22 20% 25V
C111	1-124-462-00	s	ELECT 10 20% 16V
C112	1-124-462-00	s	ELECT 10 20% 16V
C125	1-161-463-00	s	CERAMIC 220pF 5% 50V
C127	1-161-463-00	s	CERAMIC 220pF 5% 50V

C128	1-161-463-00	s	CERAMIC 220pF 5% 50V
C131	1-161-463-00	s	CERAMIC 220pF 5% 50V
C308	1-124-224-00	s	ELECT 47 20% 6.3V
C309	1-124-224-00	s	ELECT 47 20% 6.3V
C310	1-124-236-00	s	ELECT 47 20% 10V

C311	1-124-236-00	s	ELECT 47 20% 10V
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Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

CN206 1-506-748-11 s DIN 96P

D1 8-719-911-19 s 1SS119
 D2 8-719-911-19 s 1SS119
 D101 8-719-911-19 s 1SS119
 D102 8-719-911-19 s 1SS119
 D103 8-719-911-19 s 1SS119

D104 8-719-911-19 s 1SS119
 D105 8-719-911-19 s 1SS119
 D106 8-719-911-19 s 1SS119
 D107 8-719-911-19 s 1SS119
 D108 8-719-911-19 s 1SS119

D109 8-719-911-19 s 1SS119
 D110 8-719-911-19 s 1SS119
 D111 8-719-911-19 s 1SS119
 D114 8-719-911-19 s 1SS119

IC1 8-759-113-55 s uPD71054GB (NEC)
 IC2 8-759-113-55 s uPD71054GB (NEC)
 IC3 8-759-113-55 s uPD71054GB (NEC)
 IC4 8-759-113-55 s uPD71054GB (NEC)
 IC5 8-759-113-55 s uPD71054GB (NEC)

IC6 8-759-938-83 s CF77074NT (TI)
 IC7 8-759-938-83 s CF77074NT (TI)
 IC8 8-759-938-83 s CF77074NT (TI)
 IC9 8-759-205-06 s TC74HC74F (TOSHIBA)
 IC10 8-759-926-97 s SN74HC4024NS (TI)

IC11 8-759-205-00 s TC74HC14F (TOSHIBA)
 IC12 8-759-205-00 s TC74HC14F (TOSHIBA)
 IC14 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC101 8-759-926-49 s SN74HC245NS (TI)
 IC102 8-759-205-23 s TC74HC244F (TOSHIBA)

IC103 8-759-201-00 s TC4052BF (TOSHIBA)
 IC104 8-759-204-97 s TC74HC004F (TOSHIBA)
 IC105 8-752-323-64 s CXK5816M-12L (SONY)
 IC106 8-759-205-09 s TC74HC138F (TOSHIBA)
 IC107 8-759-205-09 s TC74HC138F (TOSHIBA)

IC108 8-759-205-10 s TC74HC139F (TOSHIBA)
 IC110 8-759-205-31 s TC74HC373F (TOSHIBA)
 IC111 8-759-153-81 s uPD78310ACW (NEC)
 IC112 8-759-926-98 s SN74HC4040NS (TI)
 IC113 8-759-103-95 s uPC648C (NEC)

IC114 8-759-908-92 s TL084CNS (TI)
 IC116 8-759-908-92 s TL084CNS (TI)
 IC117 8-759-908-92 s TL084CNS (TI)
 IC118 8-759-932-54 s TC4066BFHB (TOSHIBA)
 IC119 8-759-932-54 s TC4066BFHB (TOSHIBA)

IC120 8-759-938-68 s CXD1095Q (SONY)
 IC121 8-759-708-09 s NJM78L09A (JRC)
 IC122 8-759-204-98 s TC74HC08F (TOSHIBA)

L1 1-410-476-11 s MICRO 33
 L2 1-410-476-11 s MICRO 33
 L3 1-410-476-11 s MICRO 33
 L4 1-410-476-11 s MICRO 33

Ref.No. Parts No. SP Description

Q1 8-729-600-27 s 2SC643SP
 Q2 8-729-600-27 s 2SC643SP
 Q3 8-729-600-27 s 2SC643SP

R1 1-247-887-00 s CARBON 220k 5% 1/4W
 R3 1-247-887-00 s CARBON 220k 5% 1/4W
 R5 1-247-887-00 s CARBON 220k 5% 1/4W
 R7 1-247-887-00 s CARBON 220k 5% 1/4W
 R19 1-247-887-00 s CARBON 220k 5% 1/4W

R114 1-217-666-31 s SHORT 0.01 1/6W
 R116 1-217-666-31 s SHORT 0.01 1/6W
 R170 1-247-887-00 s CARBON 220k 5% 1/4W
 R172 1-247-887-00 s CARBON 220k 5% 1/4W

RB101 1-231-557-00 s 100k x 4

RV101 1-237-515-21 s VAR, CERMET 1k
 RV102 1-237-505-21 s VAR, CERMET 50k
 RV103 1-237-505-21 s VAR, CERMET 50k

S101 1-553-572-00 s DIP (PIANO TYPE)

X101 1-567-865-11 s VIBRATOR 12.00MHz

SV-83 BOARD

A-6715-357-A o MOUNTED CIRCUIT BOARD, SV-83

C1 1-124-236-00 s ELECT 47 20% 10V
 C2 1-124-236-00 s ELECT 47 20% 10V
 C3 1-162-879-11 s CERAMIC 100pF 5% 50V
 C6 1-162-879-11 s CERAMIC 100pF 5% 50V
 C12 1-162-879-11 s CERAMIC 100pF 5% 50V

C15 1-124-224-00 s ELECT 47 20% 6.3V
 C16 1-124-224-00 s ELECT 47 20% 6.3V
 C31 1-124-236-00 s ELECT 47 20% 10V
 C32 1-124-236-00 s ELECT 47 20% 10V
 C201 1-124-236-00 s ELECT 47 20% 10V

C202 1-124-462-00 s ELECT 10 20% 16V
 C203 1-124-234-00 s ELECT 22 20% 16V
 C204 1-131-345-00 s TANTAL 0.47 10% 35V
 C208 1-162-885-11 s CERAMIC 330pF 5% 50V
 C209 1-130-026-00 s FILM 0.0047 5% 50V

C212 1-162-885-11 s CERAMIC 330pF 5% 50V
 C219 1-161-463-00 s CERAMIC 220pF 5% 50V
 C221 1-162-887-11 s CERAMIC 470pF 5% 50V
 C222 1-130-022-00 s FILM 0.0022 5% 50V
 C309 1-124-236-00 s ELECT 47 20% 10V

C310 1-124-236-00 s ELECT 47 20% 10V
 C311 1-124-236-00 s ELECT 47 20% 10V
 C312 1-124-236-00 s ELECT 47 20% 10V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

CN207 1-506-748-11 s DIN 96P

D5 8-719-911-19 s 1SS119
 D6 8-719-911-19 s 1SS119
 D7 8-719-911-19 s 1SS119
 D8 8-719-911-19 s 1SS119
 D201 8-719-911-19 s 1SS119

IC1 8-759-132-40 s uPC324C (NEC)
 IC2 8-759-908-92 s TL084CNS (TI)
 IC3 8-759-908-92 s TL084CNS (TI)
 IC4 8-759-700-58 s NJM4558D-FA (JRC)
 IC5 8-759-908-92 s TL084CNS (TI)
 IC6 8-759-908-92 s TL084CNS (TI)
 IC7 8-759-700-07 s NJM2903M (JRC)
 IC8 8-759-700-07 s NJM2903M (JRC)
 IC10 8-759-910-43 s CX23028 (SONY)
 IC11 8-759-208-11 s TC4053BFHB (TOSHIBA)

IC201 8-743-915-10 s BX3915A (SONY)
 IC202 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC203 8-759-200-90 s TC4538BF (TOSHIBA)
 IC204 8-759-205-78 s TC504013BF (TOSHIBA)
 IC205 8-759-200-84 s TC4081BF (TOSHIBA)
 IC206 8-759-700-07 s NJM2903M (JRC)
 IC207 8-759-200-90 s TC4538BF (TOSHIBA)
 IC208 8-759-204-20 s TC4024BF (TOSHIBA)
 IC209 8-759-204-20 s TC4024BF (TOSHIBA)
 IC210 8-759-700-07 s NJM2903M (JRC)

IC211 8-759-200-68 s TC4011BF (TOSHIBA)
 IC212 8-759-200-68 s TC4011BF (TOSHIBA)
 IC213 8-759-205-78 s TC504013BF (TOSHIBA)
 IC214 8-759-200-90 s TC4538BF (TOSHIBA)
 IC215 8-759-200-90 s TC4538BF (TOSHIBA)

IC216 8-759-205-78 s TC504013BF (TOSHIBA)
 IC217 8-759-205-78 s TC504013BF (TOSHIBA)
 IC218 8-759-200-90 s TC4538BF (TOSHIBA)
 IC219 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC220 8-759-205-15 s TC74HC160F (TOSHIBA)
 8-759-205-16 s TC74HC161F (TOSHIBA)
 IC221 8-759-207-74 s TC4030BFHB (TOSHIBA)

L1 1-410-476-11 s MICRO 33
 L2 1-410-476-11 s MICRO 33
 L3 1-410-476-11 s MICRO 33
 L4 1-410-476-11 s MICRO 33

Q2 8-729-201-05 s 2SC2878-B
 Q3 8-729-201-05 s 2SC2878-B
 Q4 8-729-201-05 s 2SC2878-B
 Q5 8-729-201-05 s 2SC2878-B
 Q8 8-729-201-05 s 2SC2878-B
 Q9 8-729-611-53 s 2SA1115-F

R21 1-247-883-00 s CARBON 150k 5% 1/4W
 R129 1-247-887-00 s CARBON 220k 5% 1/4W
 R132 1-247-883-00 s CARBON 150k 5% 1/4W
 R133 1-247-883-00 s CARBON 150k 5% 1/4W
 R215 1-247-883-00 s CARBON 150k 5% 1/4W

Ref.No. Parts No. SP Description

R222 1-247-883-00 s CARBON 150k 5% 1/4W
 R239 1-247-883-00 s CARBON 150k 5% 1/4W
 R257 1-247-887-00 s CARBON 220k 5% 1/4W
 R263 1-217-666-31 s SHORT 0.01 1/6W
 R265 1-217-666-31 s SHORT 0.01 1/6W

RV1 1-230-838-11 s VAR, METAL FILM 200
 RV2 1-237-512-21 s VAR, CERMET 100
 RV3 1-237-520-21 s VAR, CERMET 50k
 RV4 1-237-518-21 s VAR, CERMET 10k
 RV8 1-237-519-21 s VAR, CERMET 20k

RV9 1-237-518-21 s VAR, CERMET 10k
 RV10 1-237-518-21 s VAR, CERMET 10k
 RV11 1-237-518-21 s VAR, CERMET 10k
 RV12 1-237-518-21 s VAR, CERMET 10k
 RV13 1-237-518-21 s VAR, CERMET 10k

RV15 1-237-521-21 s VAR, CERMET 100k
 RV16 1-237-521-21 s VAR, CERMET 100k
 RV201 1-237-521-21 s VAR, CERMET 100k
 RV202 1-237-521-21 s VAR, CERMET 100k
 RV203 1-237-521-21 s VAR, CERMET 100k

RV204 1-237-521-21 s VAR, CERMET 100k
 RV206 1-237-522-21 s VAR, CERMET 200k
 RV210 1-237-520-21 s VAR, CERMET 50k

S1 1-552-509-00 s DIP
 1-570-857-11 s SLIDE

SV-84 BOARD

A-6715-358-A o MOUNTED CIRCUIT BOARD, SV-84

C1 1-124-224-00 s ELECT 47 20% 6.3V
 C2 1-124-224-00 s ELECT 47 20% 6.3V
 C3 1-124-236-00 s ELECT 47 20% 10V
 C4 1-124-236-00 s ELECT 47 20% 10V
 C7 1-124-462-00 s ELECT 10 20% 16V

C10 1-124-462-00 s ELECT 10 20% 16V
 C11 1-162-879-11 s CERAMIC 100pF 5% 50V
 C12 1-130-736-11 s FILM 0.01 5% 50V
 C29 1-124-224-00 s ELECT 47 20% 6.3V
 C30 1-124-224-00 s ELECT 47 20% 6.3V

C31 1-124-236-00 s ELECT 47 20% 10V
 C32 1-124-236-00 s ELECT 47 20% 10V
 C100 1-124-234-00 s ELECT 22 20% 16V
 C105 1-162-887-11 s CERAMIC 470pF 5% 50V
 C106 1-162-887-11 s CERAMIC 470pF 5% 50V

C107 1-162-887-11 s CERAMIC 470pF 5% 50V
 C111 1-162-879-11 s CERAMIC 100pF 5% 50V
 C112 1-162-879-11 s CERAMIC 100pF 5% 50V
 C116 1-124-254-00 s ELECT 0.68 20% 50V
 C117 1-124-254-00 s ELECT 0.68 20% 50V

C118 1-124-261-00 s ELECT 10 20% 50V
 C119 1-124-261-00 s ELECT 10 20% 50V
 C120 1-162-879-11 s CERAMIC 100pF 5% 50V
 C121 1-130-736-11 s FILM 0.01 5% 50V
 C123 1-130-728-00 s FILM 0.0022 5% 50V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

C127	1-130-736-11	s	FILM	0.01	5%	50V
C130	1-124-462-00	s	ELECT	10	20%	16V
C131	1-124-236-00	s	ELECT	47	20%	10V
C202	1-123-611-00	s	ELECT	1	20%	50V
C203	1-124-261-00	s	ELECT	10	20%	50V
C207	1-123-611-00	s	ELECT	1	20%	50V
C208	1-124-261-00	s	ELECT	10	20%	50V
C212	1-123-611-00	s	ELECT	1	20%	50V
C213	1-124-261-00	s	ELECT	10	20%	50V
C216	1-123-611-00	s	ELECT	1	20%	50V
C217	1-123-611-00	s	ELECT	1	20%	50V
C218	1-162-885-11	s	CERAMIC	330pF	5%	50V
C219	1-162-710-11	s	CERAMIC	100pF	5%	50V
C220	1-162-885-11	s	CERAMIC	330pF	5%	50V
C221	1-162-710-11	s	CERAMIC	100pF	5%	50V

CN208 1-506-748-11 s DIN 96P

D1 8-719-911-19 s 1SS119
D2 8-719-911-19 s 1SS119
D4 8-719-911-19 s 1SS119
D5 8-719-911-19 s 1SS119
D100 8-719-911-19 s 1SS119

D101 8-719-911-19 s 1SS119
D102 8-719-911-19 s 1SS119
D103 8-719-911-19 s 1SS119
D104 8-719-911-19 s 1SS119
D105 8-719-911-19 s 1SS119

D201 8-719-911-19 s 1SS119
D202 8-719-911-19 s 1SS119
D203 8-719-911-19 s 1SS119
D204 8-719-911-19 s 1SS119

IC1 8-759-700-07 s NJM2903M (JRC)
IC2 8-759-908-92 s TL084CNS (TI)
IC3 8-759-908-92 s TL084CNS (TI)
IC4 8-759-700-07 s NJM2903M (JRC)
IC5 8-759-200-90 s TC4538BF (TOSHIBA)

IC6 8-759-208-11 s TC4053BFHB (TOSHIBA)
IC7 8-759-910-43 s CX23028 (SONY)
IC8 8-759-200-68 s TC4011BF (TOSHIBA)
IC100 8-759-981-90 s RC4558D-D (RAYTHEON)
IC101 8-743-914-00 s BX3914 (SONY)

IC102 8-759-208-11 s TC4053BFHB (TOSHIBA)
IC103 8-759-208-11 s TC4053BFHB (TOSHIBA)
IC104 8-759-208-11 s TC4053BFHB (TOSHIBA)
IC105 8-759-200-90 s TC4538BF (TOSHIBA)
IC106 8-759-200-67 s TC4001BF (TOSHIBA)

IC107 8-759-200-83 s TC4071BF (TOSHIBA)
IC108 8-759-200-90 s TC4538BF (TOSHIBA)
IC109 8-759-907-81 s SN74LS221NS (TI)
IC110 8-759-908-92 s TL084CNS (TI)
IC111 8-759-200-90 s TC4538BF (TOSHIBA)

IC112 8-759-201-53 s TC40H000F (TOSHIBA)
IC113 8-759-201-53 s TC40H000F (TOSHIBA)
IC114 8-759-205-20 s TC74HC193F (TOSHIBA)
IC115 8-759-205-20 s TC74HC193F (TOSHIBA)
IC116 8-759-931-57 s SN74LS685NS (TI)

Ref.No. Parts No. SP Description

IC117 8-759-938-68 s CXD1095Q (SONY)
IC118 8-759-205-39 s TC74HC4049F (TOSHIBA)
IC119 8-759-205-06 s TC74HC74F (TOSHIBA)
IC120 8-759-205-05 s TC74HC32F (TOSHIBA)
IC201 8-759-700-07 s NJM2903M (JRC)

IC202 8-759-700-07 s NJM2903M (JRC)
IC203 8-759-208-11 s TC4053BFHB (TOSHIBA)

L1 1-410-476-11 s MICRO 33
L2 1-410-476-11 s MICRO 33
L3 1-410-476-11 s MICRO 33
L4 1-410-476-11 s MICRO 33

Q1 8-729-201-05 s 2SC2878-B
Q2 8-729-201-05 s 2SC2878-B
Q3 8-729-201-05 s 2SC2878-B
Q4 8-729-900-89 s DTC144ES
Q5 8-729-900-89 s DTC144ES

Q100 8-729-900-89 s DTC144ES
Q101 8-729-103-43 s 2SB734
Q102 8-729-611-53 s 2SA1115-F
Q103 8-729-900-89 s DTC144ES
Q104 8-729-201-05 s 2SC2878-B

Q105 8-729-201-05 s 2SC2878-B
Q106 8-729-900-89 s DTC144ES
Q107 8-729-900-89 s DTC144ES
Q108 8-729-900-89 s DTC144ES
Q109 8-729-201-05 s 2SC2878-B

Q110 8-729-900-89 s DTC144ES
Q111 8-729-201-05 s 2SC2878-B
Q112 8-729-900-89 s DTC144ES
Q113 8-729-900-89 s DTC144ES

R28 1-247-887-00 s CARBON 220k 5% 1/4W
R47 1-247-883-00 s CARBON 150k 5% 1/4W
R53 1-247-883-00 s CARBON 150k 5% 1/4W
R108 1-247-887-00 s CARBON 220k 5% 1/4W
R115 1-247-887-00 s CARBON 220k 5% 1/4W

R123 1-247-887-00 s CARBON 220k 5% 1/4W
R124 1-247-887-00 s CARBON 220k 5% 1/4W
R134 1-247-887-00 s CARBON 220k 5% 1/4W
R136 1-247-881-00 s CARBON 120k 5% 1/4W
R141 1-247-887-00 s CARBON 220k 5% 1/4W

R145 1-247-881-00 s CARBON 120k 5% 1/4W
R160 1-247-891-00 s CARBON 330k 5% 1/4W
R206 1-247-887-00 s CARBON 220k 5% 1/4W
R214 1-247-887-00 s CARBON 220k 5% 1/4W
R222 1-247-887-00 s CARBON 220k 5% 1/4W

R250 1-247-887-00 s CARBON 220k 5% 1/4W
R258 1-247-887-00 s CARBON 220k 5% 1/4W
R259 1-247-887-00 s CARBON 220k 5% 1/4W
R260 1-247-887-00 s CARBON 220k 5% 1/4W

RV1 1-237-518-21 s VAR, CERMET 10k
RV2 1-237-518-21 s VAR, CERMET 10k
RV3 1-237-518-21 s VAR, CERMET 10k
RV4 1-237-522-21 s VAR, CERMET 200k
RV100 1-237-522-21 s VAR, CERMET 200k

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

RV101 1-237-520-21 s VAR, CERMET 50k
 RV102 1-237-521-21 s VAR, CERMET 100k
 RV202 1-237-503-21 s VAR, CERMET 10k

SW-144 BOARD

1-622-573-14 o PRINTED CIRCUIT BOARD, SW-144

C9 1-124-236-00 s ELECT 47 20% 10V
 C10 1-124-236-00 s ELECT 47 20% 10V

D1 8-719-800-86 s TLG255
 D2 8-719-800-86 s TLG255
 D3 8-719-800-89 s TLY255
 D4 8-719-800-89 s TLY255
 D5 8-719-800-86 s TLG255
 D7 8-719-800-86 s TLG255
 D9 8-719-800-86 s TLG255
 D10 8-719-800-86 s TLG255
 D11 8-719-911-19 s 1SS119
 D12 8-719-800-86 s TLG255

Q1 8-729-900-63 s DTA124ES
 Q2 8-729-900-63 s DTA124ES
 Q3 8-729-900-36 s DTC124ES

R3 1-247-706-11 s CARBON 330 5% 1/4W
 R4 1-247-706-11 s CARBON 330 5% 1/4W
 R5 1-247-706-11 s CARBON 330 5% 1/4W
 R6 1-247-706-11 s CARBON 330 5% 1/4W
 R17 1-247-710-11 s CARBON 560 5% 1/4W

S1 1-516-995-00 s LEVER SLIDE
 S2 1-516-995-00 s LEVER SLIDE
 S3 1-516-961-00 s LEVER SLIDE
 S4 1-516-995-00 s LEVER SLIDE
 S5 1-516-961-00 s LEVER SLIDE
 S6 1-516-995-00 s LEVER SLIDE

Ref.No. Parts No. SP Description

SY-61 BOARD

IC6 8-759-550-88 o C256-BVW75 V2.00 SY1
 IC39 8-759-550-89 o C512-BVW75 V2.01 SY2

1) A-6717-442-A o MOUNTED CIRCUIT BOARD, SY-61
 2) A-6717-442-B o MOUNTED CIRCUIT BOARD, SY-61

C1 1-124-236-00 s ELECT 47 20% 10V
 C3 1-126-103-11 s ELECT 470 20% 16V
 C5 1-126-103-11 s ELECT 470 20% 16V
 C101 1-124-462-00 s ELECT 10 20% 16V
 C107 1-162-720-11 s CERAMIC 270pF 1% 50V

C108 1-124-234-00 s ELECT 22 20% 16V
 C111 1-162-887-11 s CERAMIC 470pF 5% 50V
 C201 1-124-462-00 s ELECT 10 20% 16V
 C209 1-107-169-00 s MICA 100pF 5% 500V
 C210 1-107-169-00 s MICA 100pF 5% 500V

C212 1-123-611-00 s ELECT 1 20% 50V
 C213 1-123-611-00 s ELECT 1 20% 50V
 C301 1-131-347-00 s TANTAL 1 10% 35V
 C302 1-102-114-00 s CERAMIC 470pF 10% 50V
 C305 1-124-462-00 s ELECT 10 20% 16V
 C309 1-102-106-00 s CERAMIC 100pF 10% 50V

CN301 1-506-748-11 s DIN 96P
 CN302 1-506-748-11 s DIN 96P

CV101 1-141-297-11 s TRIMMER, CERAMIC 90pF
 CV102 1-141-260-00 s TRIMMER, CERAMIC 30pF

D101 8-719-800-60 s LN25RP
 D102 8-719-911-19 s 1SS119
 D103 8-719-911-19 s 1SS119
 D104 8-719-911-19 s 1SS119
 D201 8-719-911-19 s 1SS119
 D202 8-719-911-19 s 1SS119
 D203 8-719-911-19 s 1SS119
 D204 8-719-911-19 s 1SS119
 D205 8-719-911-19 s 1SS119
 D206 8-719-911-19 s 1SS119

D301 8-719-911-19 s 1SS119
 D302 8-719-911-19 s 1SS119
 D303 8-719-911-19 s 1SS119

IC1 8-759-902-44 s SN74LS244N (TI)
 IC2 8-759-902-45 s SN74LS245N (TI)
 IC3 8-759-902-44 s SN74LS244N (TI)
 IC4 8-759-942-12 s MBM2212-25P (FUJITSU)
 IC5 8-759-057-02 s SRM2016C10 (SEIKO EPSON)

IC7 8-759-208-85 s TMP284C011AF (TOSHIBA)
 IC8 8-759-202-13 s TC74HC004P (TOSHIBA)
 IC9 8-759-600-61 s M54529AP (MITSUBISHI)
 IC10 8-759-202-16 s TC74HC11P (TOSHIBA)
 IC11 8-759-202-26 s TC74HC138P (TOSHIBA)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
IC12	8-759-202-26	s	TC74HC138P (TOSHIBA)
IC13	8-759-202-17	s	TC74HC14P (TOSHIBA)
IC14	8-759-240-50	s	TC4050BP (TOSHIBA)
1) IC15	8-759-240-53	s	TC4053BP (TOSHIBA)
2) IC15	8-759-208-10	s	TC4053BPHB (TOSHIBA)
IC16	8-759-203-52	s	TC74HC595P (TOSHIBA)
IC17	8-759-004-84	s	MC74HC597N (MOTOROLA)
IC18	8-759-708-05	s	NJM78L05A (JRC)
IC19	8-759-908-23	s	MB88303 (FUJITSU)
IC20	8-759-926-30	s	AM26LS30PC (ADVANCED MICRO DEVICES)
IC21	8-759-202-27	s	TC74HC157P (TOSHIBA)
IC22	8-759-202-27	s	TC74HC157P (TOSHIBA)
IC23	8-759-057-02	s	SRM2016C10 (SEIKO EPSON)
IC24	8-759-202-13	s	TC74HC04P (TOSHIBA)
IC25	8-759-729-03	s	NJM2903D (JRC)
IC26	8-759-008-57	s	MC34051P (MOTOROLA)
IC27	8-759-208-86	s	TMP284C011AF (TOSHIBA)
IC28	8-759-202-56	s	TC74HC245P (TOSHIBA)
IC29	8-759-202-56	s	TC74HC245P (TOSHIBA)
IC30	8-759-916-82	s	LH0082AD (SHARP)
IC31	8-759-600-61	s	M54529AP (MITSUBISHI)
IC32	8-759-600-61	s	M54529AP (MITSUBISHI)
IC33	8-759-240-30	s	TC4030BP (TOSHIBA)
IC34	8-759-202-14	s	TC74HC08P (TOSHIBA)
IC35	8-759-906-97	s	SN74LS697N (TI)
IC36	8-759-906-97	s	SN74LS697N (TI)
IC37	8-759-600-61	s	M54529AP (MITSUBISHI)
IC38	8-759-938-68	s	CXD1095Q (SONY)
IC40	8-752-328-11	s	CXK5864BP-12L (SONY)
IC41	8-759-916-84	s	LH0084A (SHARP)
IC42	8-759-202-21	s	TC74HC32P (TOSHIBA)
IC43	8-759-202-21	s	TC74HC32P (TOSHIBA)
IC44	8-759-202-11	s	TC74HC00P (TOSHIBA)
IC45	8-759-603-32	s	M51958BL (MITSUBISHI)
IC46	8-759-202-14	s	TC74HC08P (TOSHIBA)
IC47	8-759-045-38	s	MC14538BCP (MOTOROLA)
IC48	8-759-140-69	s	uPD4069UBC (NEC)
IC49	8-759-001-14	s	MC74HC58N (MOTOROLA)
IC50	8-759-202-21	s	TC74HC32P (TOSHIBA)
IC51	8-759-202-13	s	TC74HC04P (TOSHIBA)
IC52	8-759-202-89	s	TC74HC139P (TOSHIBA)
IC53	8-759-202-12	s	TC74HC02P (TOSHIBA)
L1	1-459-155-00	s	45 (WITH CORE)
1) R247	1-217-666-31	s	SHORT 0.01 1/6W
R290	1-247-881-00	s	CARBON 120k 5% 1/4W
R307	1-247-887-00	s	CARBON 220k 5% 1/4W
R315	1-247-887-00	s	CARBON 220k 5% 1/4W
S101	1-570-707-11	s	SLIDE
S102	1-553-812-00	s	PUSH
S103	1-553-812-00	s	PUSH
S105	1-553-812-00	s	PUSH
S106	1-552-509-00	s	DIP
S201	1-570-707-11	s	SLIDE
S202	1-570-707-11	s	SLIDE
S203	1-570-623-11	s	DIP
S204	1-570-623-11	s	DIP
S206	1-553-812-00	s	PUSH

Ref.No.	Parts No.	SP	Description
S302	1-552-509-00	s	DIP
X1	1-567-132-00	s	VIBRATOR 8.00MHz
X2	1-567-870-11	s	VIBRATOR 614.00kHz

SY-64 BOARD

A-6717-443-A o MOUNTED CIRCUIT BOARD, SY-64

C1	1-126-103-11	s	ELECT	470	20%	16V
C3	1-124-135-00	s	ELECT	470	20%	6.3V
C4	1-124-455-00	s	ELECT	100	20%	16V
C7	1-124-462-00	s	ELECT	10	20%	16V
C9	1-124-462-00	s	ELECT	10	20%	16V
C11	1-124-462-00	s	ELECT	10	20%	16V
C12	1-124-242-00	s	ELECT	33	20%	25V
C13	1-124-242-00	s	ELECT	33	20%	25V
C15	1-124-462-00	s	ELECT	10	20%	16V
C16	1-123-611-00	s	ELECT	1	20%	50V
C18	1-124-462-00	s	ELECT	10	20%	16V
C25	1-102-106-00	s	CERAMIC	100pF	10%	50V
C26	1-102-945-00	s	CERAMIC	8pF		50V
C27	1-102-951-00	s	CERAMIC	15pF		50V
C28	1-102-947-11	s	CERAMIC	10pF		50V
C32	1-124-462-00	s	ELECT	10	20%	16V
C61	1-124-236-00	s	ELECT	47	20%	10V
C63	1-124-236-00	s	ELECT	47	20%	10V
C65	1-161-463-00	s	CERAMIC	220pF	5%	50V
C66	1-161-463-00	s	CERAMIC	220pF	5%	50V
C67	1-124-462-00	s	ELECT	10	20%	16V
C68	1-124-236-00	s	ELECT	47	20%	10V
C71	1-124-465-00	s	ELECT	0.47	20%	50V
C72	1-162-889-11	s	CERAMIC	680pF	5%	50V
C74	1-161-463-00	s	CERAMIC	220pF	5%	50V
C75	1-102-106-00	s	CERAMIC	100pF	10%	50V
C124	1-102-114-00	s	CERAMIC	470pF	10%	50V
C302	1-124-462-00	s	ELECT	10	20%	16V
C305	1-124-462-00	s	ELECT	10	20%	16V
C309	1-162-880-11	s	CERAMIC	120pF	5%	50V
C310	1-102-947-11	s	CERAMIC	10pF		50V
C311	1-102-947-11	s	CERAMIC	10pF		50V
C312	1-124-462-00	s	ELECT	10	20%	16V
C313	1-162-880-11	s	CERAMIC	120pF	5%	50V
C314	1-124-462-00	s	ELECT	10	20%	16V
C315	1-124-236-00	s	ELECT	47	20%	10V
C316	1-162-880-11	s	CERAMIC	120pF	5%	50V
C318	1-124-236-00	s	ELECT	47	20%	10V
C319	1-124-236-00	s	ELECT	47	20%	10V
C352	1-102-106-00	s	CERAMIC	100pF	10%	50V
C401	1-129-794-00	s	FILM	0.0033	5%	100V
C404	1-162-887-11	s	CERAMIC	470pF	5%	50V
C405	1-124-224-00	s	ELECT	47	20%	6.3V
C406	1-130-726-00	s	FILM	0.0015	5%	100V
C409	1-162-885-11	s	CERAMIC	330pF	5%	50V
C410	1-124-224-00	s	ELECT	47	20%	6.3V
C412	1-123-611-00	s	ELECT	1	20%	50V
C413	1-124-257-00	s	ELECT	2.2	20%	50V
C414	1-124-236-00	s	ELECT	47	20%	10V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

CN303 1-568-144-11 s DIN 96P
 CN304 1-568-144-11 s DIN 96P
 CN305 1-566-311-11 s HEADER 10P

D2 8-719-200-02 s 10E2
 D3 8-719-200-02 s 10E2
 D4 8-719-200-02 s 10E2
 D5 8-719-200-02 s 10E2
 D6 8-719-200-02 s 10E2

D17 8-719-200-02 s 10E2
 D18 8-719-200-02 s 10E2
 D19 8-719-911-19 s 1SS119
 D20 8-719-911-19 s 1SS119
 D21 8-719-911-19 s 1SS119

D302 8-719-101-97 s 1SS97-1
 D303 8-719-101-97 s 1SS97-1
 D304 8-719-911-19 s 1SS119
 D305 8-719-911-19 s 1SS119
 D306 8-719-911-19 s 1SS119

D307 8-719-911-19 s 1SS119

IC1 8-743-430-00 s BX343 (SONY)
 IC2 8-759-800-72 s LA7205 (SANYO)
 IC3 8-759-800-72 s LA7205 (SANYO)
 IC4 8-759-114-14 s uPD78312CW-608 (NEC)
 IC5 8-759-990-82 s TL082CP (TI)

5) IC6 8-759-240-16 s TC4016BP (TOSHIBA)
 6) IC6 8-759-208-12 s TC4016BPHE (TOSHIBA)
 IC7 8-759-990-82 s TL082CP (TI)
 IC9 8-759-947-43 s TLC548IP (TI)
 IC10 8-759-203-35 s TC74HC373P (TOSHIBA)

IC11 8-759-057-02 s SRM2016C10 (SEIKO EPSON)
 IC12 8-759-340-46 s HD14046BP (HITACHI)
 IC15 8-759-990-84 s TL084CN (TI)
 IC16 8-759-990-84 s TL084CN (TI)
 IC17 8-759-990-82 s TL082CP (TI)

IC18 8-759-400-06 s AN608P (MATSUSHITA)
 IC19 8-759-912-64 s PA0009 (PIONEER)
 IC20 8-759-901-23 s SN74LS123N (TI)
 IC21 8-759-202-74 s TC74HC04P (TOSHIBA)
 IC22 8-759-057-02 s SRM2016C10 (SEIKO EPSON)

IC23 8-759-202-55 s TC74HC244P (TOSHIBA)
 IC24 8-759-909-16 s CX7907A (SONY)
 IC25 8-759-901-23 s SN74LS123N (TI)
 IC26 8-759-240-50 s TC4050BP (TOSHIBA)
 IC27 8-759-202-11 s TC74HC00P (TOSHIBA)

IC28 8-759-202-56 s TC74HC245P (TOSHIBA)
 IC29 8-759-001-14 s MC74HC58N (MOTOROLA)
 IC30 8-759-234-04 s TA7267BP (TOSHIBA)
 IC31 8-759-234-04 s TA7267BP (TOSHIBA)
 IC32 8-759-345-38 s HD14538BP (HITACHI)

IC33 8-759-202-14 s TC74HC08P (TOSHIBA)
 IC34 8-759-202-21 s TC74HC32P (TOSHIBA)
 IC35 8-759-240-01 s TC4001BP (TOSHIBA)
 IC36 8-759-205-76 s TC504013BP (TOSHIBA)
 IC37 8-759-600-34 s M54532P (MITSUBISHI)

Ref.No. Parts No. SP Description

IC38 8-759-202-14 s TC74HC08P (TOSHIBA)
 IC39 8-759-202-37 s TC74HC4050P (TOSHIBA)
 IC40 8-759-938-68 s CXD1095Q (SONY)
 IC41 8-759-202-14 s TC74HC08P (TOSHIBA)
 IC42 8-759-057-02 s SRM2016C10 (SEIKO EPSON)

IC43 8-759-202-33 s TC74HC240P (TOSHIBA)
 IC44 8-759-910-76 s CX7913A (SONY)
 IC45 8-759-645-23 s M54523P (MITSUBISHI)
 IC46 8-759-938-68 s CXD1095Q (SONY)
 IC47 8-759-938-68 s CXD1095Q (SONY)

IC48 8-759-202-74 s TC74HC04P (TOSHIBA)
 IC49 8-759-057-02 s SRM2016C10 (SEIKO EPSON)
 IC50 8-759-202-55 s TC74HC244P (TOSHIBA)
 IC51 8-759-909-72 s CX7912A (SONY)
 IC52 8-759-202-37 s TC74HC4050P (TOSHIBA)

IC53 8-759-205-76 s TC504013BP (TOSHIBA)
 IC54 8-759-203-83 s TC74HC4538P (TOSHIBA)
 IC55 8-759-240-71 s TC4071BP (TOSHIBA)

L1 1-412-533-11 s MICRO 47
 L301 1-410-482-31 s MICRO 100
 L302 1-410-482-31 s MICRO 100

Q1 8-729-600-27 s 2SC634SP
 Q2 8-729-117-54 s 2SA1175
 Q4 8-729-600-27 s 2SC634SP
 Q301 8-729-600-27 s 2SC634SP
 7) Q302 8-729-201-05 s 2SC2878-B

7) Q303 8-729-201-05 s 2SC2878-B
 7) Q304 8-729-201-05 s 2SC2878-B
 7) Q305 8-729-201-05 s 2SC2878-B

R411 1-217-666-31 s SHORT 0.01 1/6W
 R412 1-217-666-31 s SHORT 0.01 1/6W

RB301 1-231-387-00 s NETTY
 RB302 1-231-387-00 s NETTY

7) RV303 1-237-521-21 s VAR, CERMET 100k
 7) RV304 1-237-521-21 s VAR, CERMET 100k
 7) RV305 1-237-521-21 s VAR, CERMET 100k
 7) RV399 1-237-521-21 s VAR, CERMET 100k

S1 1-571-060-11 s SLIDE
 S2 1-570-707-11 s SLIDE
 S3 1-570-707-11 s SLIDE
 S4 1-570-707-11 s SLIDE
 S5 1-570-707-11 s SLIDE

S6 1-570-707-11 s SLIDE
 S7 1-570-707-11 s SLIDE
 7) S301 1-552-509-00 s DIP
 7) S302 1-552-509-00 s DIP

X1 1-527-227-00 s OSCILLATOR 14.31818MHz
 X301 1-527-828-00 s OSCILLATOR 12.00MHz

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

TBC-7 BOARD

A-6711-809-C o MOUNTED CIRCUIT BOARD, TBC-7

C100	1-163-033-00	s	CERAMIC	0.022	50V
C102	1-163-033-00	s	CERAMIC	0.022	50V
C103	1-163-033-00	s	CERAMIC	0.022	50V
C105	1-135-076-21	s	TANTAL	1	35V
C108	1-163-033-00	s	CERAMIC	0.022	50V
C110	1-163-033-00	s	CERAMIC	0.022	50V
C111	1-163-033-00	s	CERAMIC	0.022	50V
C115	1-163-033-00	s	CERAMIC	0.022	50V
C121	1-163-033-00	s	CERAMIC	0.022	50V
C124	1-163-033-00	s	CERAMIC	0.022	50V
C125	1-163-033-00	s	CERAMIC	0.022	50V
C126	1-163-033-00	s	CERAMIC	0.022	50V
C128	1-163-033-00	s	CERAMIC	0.022	50V
C130	1-163-033-00	s	CERAMIC	0.022	50V
C135	1-163-037-11	s	CERAMIC	0.022	10% 25V
C205	1-163-033-00	s	CERAMIC	0.022	50V
C206	1-163-033-00	s	CERAMIC	0.022	50V
C209	1-163-033-00	s	CERAMIC	0.022	50V
C211	1-163-033-00	s	CERAMIC	0.022	50V
C213	1-163-033-00	s	CERAMIC	0.022	50V
C217	1-163-033-00	s	CERAMIC	0.022	50V
C219	1-163-033-00	s	CERAMIC	0.022	50V
C221	1-163-033-00	s	CERAMIC	0.022	50V
C225	1-162-568-11	s	CERAMIC	0.33	50V
C226	1-162-638-11	s	CERAMIC	1	16V
C227	1-163-033-00	s	CERAMIC	0.022	50V
C228	1-162-568-11	s	CERAMIC	0.33	25V
C229	1-162-638-11	s	CERAMIC	1	16V
C231	1-163-033-00	s	CERAMIC	0.022	50V
C234	1-163-033-00	s	CERAMIC	0.022	50V
C236	1-163-033-00	s	CERAMIC	0.022	50V
C242	1-163-033-00	s	CERAMIC	0.022	50V
C243	1-163-033-00	s	CERAMIC	0.022	50V
C245	1-163-033-00	s	CERAMIC	0.022	50V
C246	1-163-033-00	s	CERAMIC	0.022	50V
C248	1-163-033-00	s	CERAMIC	0.022	50V
C253	1-163-033-00	s	CERAMIC	0.022	50V
C254	1-163-033-00	s	CERAMIC	0.022	50V
C255	1-163-033-00	s	CERAMIC	0.022	50V
C259	1-163-033-00	s	CERAMIC	0.022	50V
C263	1-163-033-00	s	CERAMIC	0.022	50V
C265	1-163-033-00	s	CERAMIC	0.022	50V
C270	1-162-638-11	s	CERAMIC	1	16V
C271	1-163-033-00	s	CERAMIC	0.022	50V
C273	1-163-033-00	s	CERAMIC	0.022	50V
C276	1-163-033-00	s	CERAMIC	0.022	50V
C277	1-163-033-00	s	CERAMIC	0.022	50V
C281	1-163-033-00	s	CERAMIC	0.022	50V
C284	1-163-033-00	s	CERAMIC	0.022	50V
C286	1-124-462-00	s	ELECT	10	20% 16V
C288	1-163-033-00	s	CERAMIC	0.022	50V
C290	1-163-033-00	s	CERAMIC	0.022	50V
C291	1-163-033-00	s	CERAMIC	0.022	50V
C293	1-163-033-00	s	CERAMIC	0.022	50V
C295	1-163-033-00	s	CERAMIC	0.022	50V

Ref.No. Parts No. SP Description

C400	1-163-033-00	s	CERAMIC	0.022	50V
C402	1-163-033-00	s	CERAMIC	0.022	50V
C403	1-163-033-00	s	CERAMIC	0.022	50V
C405	1-135-076-21	s	TANTAL	1	10% 35V
C408	1-163-033-00	s	CERAMIC	0.022	50V
C412	1-163-033-00	s	CERAMIC	0.022	50V
C418	1-163-033-00	s	CERAMIC	0.022	50V
C419	1-163-033-00	s	CERAMIC	0.022	50V
C421	1-163-033-00	s	CERAMIC	0.022	50V
C422	1-163-033-00	s	CERAMIC	0.022	50V
C424	1-163-037-11	s	CERAMIC	0.022	10% 25V
C504	1-163-033-00	s	CERAMIC	0.022	50V
C505	1-124-462-00	s	ELECT	10	20% 16V
C509	1-163-033-00	s	CERAMIC	0.022	50V
C511	1-163-033-00	s	CERAMIC	0.022	50V
C521	1-163-033-00	s	CERAMIC	0.022	50V
C522	1-163-033-00	s	CERAMIC	0.022	50V
C524	1-163-033-00	s	CERAMIC	0.022	50V
C526	1-162-638-11	s	CERAMIC	1	16V
C527	1-162-568-11	s	CERAMIC	0.33	25V
C529	1-163-033-00	s	CERAMIC	0.022	50V
C531	1-163-033-00	s	CERAMIC	0.022	50V
C533	1-163-033-00	s	CERAMIC	0.022	50V
C535	1-163-033-00	s	CERAMIC	0.022	50V
C536	1-163-033-00	s	CERAMIC	0.022	50V
C537	1-163-033-00	s	CERAMIC	0.022	50V
C540	1-163-033-00	s	CERAMIC	0.022	50V
C542	1-163-033-00	s	CERAMIC	0.022	50V
C545	1-163-033-00	s	CERAMIC	0.022	50V
C548	1-163-033-00	s	CERAMIC	0.022	50V
C550	1-163-033-00	s	CERAMIC	0.022	50V
C555	1-163-033-00	s	CERAMIC	0.022	50V
C558	1-163-033-00	s	CERAMIC	0.022	50V
C559	1-163-033-00	s	CERAMIC	0.022	50V
C566	1-163-033-00	s	CERAMIC	0.022	50V
C569	1-163-033-00	s	CERAMIC	0.022	50V
C575	1-163-033-00	s	CERAMIC	0.022	50V
C578	1-163-033-00	s	CERAMIC	0.022	50V
C581	1-163-033-00	s	CERAMIC	0.022	50V
C583	1-163-037-11	s	CERAMIC	0.022	10% 25V
C600	1-163-033-00	s	CERAMIC	0.022	50V
C611	1-163-033-00	s	CERAMIC	0.022	50V
C612	1-163-033-00	s	CERAMIC	0.022	50V
C613	1-163-033-00	s	CERAMIC	0.022	50V
C615	1-163-033-00	s	CERAMIC	0.022	50V
C650	1-163-241-11	s	CERAMIC	39pF	5% 50V
C651	1-163-033-00	s	CERAMIC	0.022	50V
C680	1-131-367-00	s	TANTAL	22	10% 16V
C701	1-163-033-00	s	CERAMIC	0.022	50V
C704	1-163-033-00	s	CERAMIC	0.022	50V
C706	1-163-033-00	s	CERAMIC	0.022	50V
C708	1-163-033-00	s	CERAMIC	0.022	50V
C750	1-163-033-00	s	CERAMIC	0.022	50V
C801	1-163-033-00	s	CERAMIC	0.022	50V
C804	1-163-033-00	s	CERAMIC	0.022	50V
6) C805	1-163-037-11	s	CERAMIC	0.022	10% 25V
C807	1-163-033-00	s	CERAMIC	0.022	50V
C902	1-163-033-00	s	CERAMIC	0.022	50V
C905	1-163-033-00	s	CERAMIC	0.022	50V
C908	1-163-033-00	s	CERAMIC	0.022	50V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

C911 1-163-033-00 s CERAMIC 0.022 50V
 C914 1-163-033-00 s CERAMIC 0.022 50V
 C917 1-163-033-00 s CERAMIC 0.022 50V
 C920 1-163-033-00 s CERAMIC 0.022 50V
 C923 1-163-033-00 s CERAMIC 0.022 50V
 C926 1-163-033-00 s CERAMIC 0.022 50V
 C929 1-163-033-00 s CERAMIC 0.022 50V
 C932 1-163-033-00 s CERAMIC 0.022 50V
 C935 1-163-033-00 s CERAMIC 0.022 50V

CN108 1-506-746-11 s DIN 48P
 CN109 1-506-748-11 s DIN 96P

D100 8-719-105-82 s RD5.1M-B2
 D200 8-719-106-08 s RD6.2M-B2
 D202 8-719-915-43 s FC54M
 D203 8-719-915-43 s FC54M
 D204 8-719-915-43 s FC54M

D205 8-719-938-98 s FC51M
 D206 8-719-938-98 s FC51M
 D207 8-719-938-98 s FC51M
 D208 8-719-101-23 s 1SS123
 D209 8-719-100-03 s 1S2835

D210 8-719-105-82 s RD5.1M-B2
 D211 8-719-106-62 s RD11M-B2
 D212 8-719-938-98 s FC51M
 D213 8-719-938-98 s FC51M
 D400 8-719-105-82 s RD5.1M-B2

D503 8-719-915-43 s FC54M
 D504 8-719-915-43 s FC54M
 D505 8-719-915-43 s FC54M
 D506 8-719-101-23 s 1SS123
 D507 8-719-106-62 s RD11M-B2

D508 8-719-105-82 s RD5.1M-B2
 D650 8-719-106-17 s RD6.8M-B2
 D680 8-719-101-23 s 1SS123
 D700 8-719-100-03 s 1S2835
 D704 8-719-105-82 s RD5.1M-B2

D705 8-719-105-82 s RD5.1M-B2
 D706 8-719-101-23 s 1SS123
 D707 8-719-106-17 s RD6.8M-B2

DL500 1-415-309-00 s 350ns

FL100 1-236-387-11 s LOW-PASS 7.0MHz
 FL400 1-236-387-11 s LOW-PASS 7.0MHz

IC101 8-749-901-45 s SBX4002-01 (NEC)
 IC102 8-759-908-15 s TL431CLP (TI)
 IC103 8-759-908-17 s TL082CPS (TI)
 IC105 8-752-032-55 s CXA1096M (SONY)
 IC108 8-759-948-32 s CXD1310AM (SONY)

IC201 8-759-201-47 s TA7357AP (TOSHIBA)
 IC203 8-759-941-27 s MB4002FF (FUJITSU)
 IC205 8-759-941-27 s MB4002FF (FUJITSU)
 IC206 8-759-907-81 s SN74LS221NS (TI)
 IC207 8-759-908-17 s TL082CPS (TI)

Ref.No. Parts No. SP Description

IC208 8-759-941-17 s SN74LS06NS (TI)
 IC209 8-759-012-00 s MC10H116M (MOTOROLA)
 IC210 8-759-012-13 s MC10H125M (MOTOROLA)
 IC211 8-759-230-23 s CXD1045AQ (SONY)
 IC212 8-749-901-21 s BX1461 (SONY)

IC213 8-759-908-17 s TL082CPS (TI)
 IC214 8-759-945-29 s TL601CPS (TI)
 IC215 8-759-907-81 s SN74LS221NS (TI)
 IC216 8-749-901-20 s BX1460 (SONY)
 IC217 8-759-105-49 s uPC319G2 (NEC)

IC218 8-759-239-58 s TC74HC221AF (TOSHIBA)
 IC219 8-759-205-06 s TC74HC74F (TOSHIBA)
 IC220 8-759-908-17 s TL082CPS (TI)
 IC221 8-759-945-29 s TL601CPS (TI)
 IC222 8-759-100-97 s uPC339G2 (NEC)

IC223 8-759-205-08 s TC74HC86F (TOSHIBA)
 IC224 8-759-204-98 s TC74HC08F (TOSHIBA)
 IC225 8-759-908-17 s TL082CPS (TI)
 IC226 8-759-945-29 s TL601CPS (TI)
 IC228 8-759-908-17 s TL082CPS (TI)

IC231 8-759-204-98 s TC74HC08F (TOSHIBA)
 IC232 8-759-945-29 s TL601CPS (TI)
 IC234 8-759-205-17 s TC74HC174F (TOSHIBA)
 IC235 8-759-205-12 s TC74HC157F (TOSHIBA)
 IC236 8-759-205-12 s TC74HC157F (TOSHIBA)

IC237 8-759-908-17 s TL082CPS (TI)
 6) IC238 8-759-907-81 s SN74LS221NS (TI)
 5) IC239 8-759-205-05 s TC74HC32F (TOSHIBA)
 6) IC239 8-759-204-94 s TC74HC00F (TOSHIBA)
 IC240 8-759-945-29 s TL601CPS (TI)

IC241 8-759-100-93 s uPC393G2 (NEC)
 IC401 8-749-901-45 s SBX4002-01 (NEC)
 IC403 8-752-032-55 s CXA1096M (SONY)
 IC404 8-759-948-32 s CXD1310AM (SONY)
 IC501 8-759-204-94 s TC74HC00F (TOSHIBA)

IC502 8-759-201-47 s TA7357AP (TOSHIBA)
 IC504 8-759-908-17 s TL082CPS (TI)
 IC505 8-759-941-17 s SN74LS06NS (TI)
 IC506 8-759-012-13 s MC10H125M (MOTOROLA)
 IC507 8-759-230-23 s CXD1045AQ (SONY)

IC508 8-749-901-21 s BX1461 (SONY)
 IC509 8-759-908-17 s TL082CPS (TI)
 IC510 8-759-945-29 s TL601CPS (TI)
 IC511 8-749-901-20 s BX1460 (SONY)
 IC512 8-759-907-81 s SN74LS221NS (TI)

IC513 8-759-941-27 s MB4002FF (FUJITSU)
 IC514 8-759-945-29 s TL601CPS (TI)
 IC516 8-759-908-17 s TL082CPS (TI)
 IC517 8-759-908-17 s TL082CPS (TI)
 IC519 8-759-205-08 s TC74HC86F (TOSHIBA)

IC520 8-759-945-29 s TL601CPS (TI)
 5) IC521 8-759-205-05 s TC74HC32F (TOSHIBA)
 IC522 8-759-105-49 s uPC319G2 (NEC)
 6) IC523 8-759-908-17 s TL082CPS (TI)
 IC610 8-759-908-15 s TL431CLP (TI)

IC611 8-759-908-17 s TL082CPS (TI)
 IC650 8-759-941-27 s MB4002FF (FUJITSU)
 IC700 8-759-945-29 s TL601CPS (TI)
 IC701 8-752-015-81 s CX20158 (SONY)
 IC702 8-752-332-67 s CXD1217M (SONY)

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Ref.No.	Parts No.	SP	Description
IC720	8-759-204-98	s	TC74HC08F (TOSHIBA)
5) IC800	8-759-945-29	s	TL601CPS (TI)
IC801	8-752-015-81	s	CX20158 (SONY)

L102	1-410-470-11	s	MICRO 10
L103	1-410-470-11	s	MICRO 10
L104	1-410-470-11	s	MICRO 10
L205	1-408-879-21	s	MICRO 0.47
L219	1-410-461-41	s	MICRO 1.8

L402	1-410-470-11	s	MICRO 10
L403	1-410-470-11	s	MICRO 10
L406	1-410-470-11	s	MICRO 10
L507	1-410-488-21	s	MICRO 330
L508	1-410-879-21	s	MICRO 0.47

L651	1-410-484-21	s	MICRO 150
L900	1-421-329-00	s	CHOKE
L901	1-421-329-00	s	CHOKE
L902	1-421-329-00	s	CHOKE
L903	1-421-329-00	s	CHOKE

L904	1-421-329-00	s	CHOKE
L905	1-421-329-00	s	CHOKE
L906	1-421-329-00	s	CHOKE
L907	1-421-329-00	s	CHOKE
L908	1-421-329-00	s	CHOKE

L909	1-421-329-00	s	CHOKE
L910	1-421-329-00	s	CHOKE
L911	1-421-329-00	s	CHOKE

LV200	1-407-563-11	s	VAR 1.0
LV201	1-407-563-11	s	VAR 1.0
LV500	1-407-563-11	s	VAR 1.0

Q100	8-729-100-66	s	2SC1623
Q101	8-729-106-68	s	2SD1615A
Q102	8-729-106-68	s	2SD1615A
Q103	8-729-102-07	s	2SC2223
Q104	8-729-102-07	s	2SC2223

Q105	8-729-109-43	s	2SK94-X3
Q201	8-729-100-66	s	2SC1623
Q203	8-729-100-66	s	2SC1623
Q204	8-729-100-66	s	2SC1623
Q205	8-729-100-66	s	2SC1623

Q206	8-729-100-66	s	2SC1623
Q207	8-729-100-66	s	2SC1623
Q208	8-729-109-43	s	2SK94-X3
Q211	8-729-102-07	s	2SC2223
Q212	8-729-102-07	s	2SC2223

Q213	8-729-109-43	s	2SK94-X3
Q214	8-729-102-07	s	2SC2223
Q215	8-729-100-76	s	2SA812
Q220	8-729-109-43	s	2SK94-X3
Q221	8-729-109-43	s	2SK94-X3

Q222	8-729-202-38	s	2SC3326N
Q223	8-729-800-44	s	2SK152
5) Q224	8-729-202-38	s	2SC3326N
6) Q224	8-729-900-53	s	DTC114EK
5) Q225	8-729-202-38	s	2SC3326N

Ref.No.	Parts No.	SP	Description
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6) Q225	8-729-900-53	s	DTC114EK
5) Q226	8-729-202-38	s	2SC3326N
6) Q226	8-729-900-53	s	DTC114EK
5) Q227	8-729-202-38	s	2SC3326N
6) Q227	8-729-900-53	s	DTC114EK

5) Q228	8-729-202-38	s	2SC3326N
6) Q228	8-729-900-53	s	DTC114EK
Q229	8-729-202-38	s	2SC3326N
Q230	8-729-202-38	s	2SC3326N
Q400	8-729-100-66	s	2SC1623

Q401	8-729-102-07	s	2SC2223
Q402	8-729-102-07	s	2SC2223
Q403	8-729-109-43	s	2SK94-X3
Q404	8-729-102-07	s	2SC2223
Q500	8-729-100-66	s	2SC1623

Q501	8-729-100-66	s	2SC1623
Q503	8-729-100-66	s	2SC1623
Q504	8-729-100-66	s	2SC1623
Q505	8-729-100-66	s	2SC1623
Q512	8-729-102-07	s	2SC2223

Q513	8-729-109-43	s	2SK94-X3
Q514	8-729-102-07	s	2SC2223
Q515	8-729-102-07	s	2SC2223
Q516	8-729-100-76	s	2SA812
Q610	8-729-106-68	s	2SD1615A

Q611	8-729-106-68	s	2SD1615A
Q680	8-729-109-43	s	2SK94-X3
Q681	8-729-100-66	s	2SC1623
Q800	8-729-109-43	s	2SK94-X3
Q801	8-729-109-43	s	2SK94-X3

Q802	8-729-100-66	s	2SC1623
6) Q803	8-729-109-43	s	2SK94-X3

R101	1-216-651-11	s	METAL CHIP 1k	0.50%	1/10W
R105	1-216-639-11	s	METAL CHIP 330	0.50%	1/10W
R106	1-216-639-11	s	METAL CHIP 330	0.50%	1/10W
R107	1-216-641-11	s	METAL CHIP 390	0.50%	1/10W
R111	1-216-659-11	s	METAL CHIP 2.2k	0.50%	1/10W

R114	1-216-675-11	s	METAL CHIP 10k	0.50%	1/10W
R115	1-216-675-11	s	METAL CHIP 10k	0.50%	1/10W
R135	1-216-677-11	s	METAL CHIP 12k	0.50%	1/10W
R139	1-216-655-11	s	METAL CHIP 1.5k	0.50%	1/10W
R140	1-216-653-11	s	METAL CHIP 1.2k	0.50%	1/10W

R142	1-216-018-00	s	CHIP 51	5%	1/10W
R149	1-216-659-11	s	METAL CHIP 2.2k	0.50%	1/10W
R205	1-216-665-11	s	METAL CHIP 3.9k	0.50%	1/10W
R213	1-216-653-11	s	METAL CHIP 1.2k	0.50%	1/10W
R218	1-216-699-11	s	METAL CHIP 5.6k	0.50%	1/10W

R219	1-216-691-11	s	METAL CHIP 47k	0.50%	1/10W
R220	1-216-674-11	s	METAL CHIP 9.1k	0.50%	1/10W
R222	1-216-660-11	s	METAL CHIP 2.4k	0.50%	1/10W
R249	1-216-682-11	s	METAL CHIP 20k	0.50%	1/10W
R250	1-216-669-11	s	METAL CHIP 5.6k	0.50%	1/10W

R251	1-216-682-11	s	METAL CHIP 20k	0.50%	1/10W
R252	1-216-671-11	s	METAL CHIP 6.8k	0.50%	1/10W
R254	1-216-695-11	s	METAL CHIP 68k	0.50%	1/10W
R258	1-216-671-11	s	METAL CHIP 6.8k	0.50%	1/10W
R259	1-216-659-11	s	METAL CHIP 2.2k	0.50%	1/10W

R264	1-216-683-11	s	METAL CHIP 22k	0.50%	1/10W
R267	1-216-665-11	s	METAL CHIP 3.9k	0.50%	1/10W
R270	1-216-675-11	s	METAL CHIP 10k	0.50%	1/10W
R271	1-216-680-11	s	METAL CHIP 16k	0.50%	1/10W
R272	1-216-681-11	s	METAL CHIP 18k	0.50%	1/10W

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Ref.No.	Parts No.	SP	Description	Ref.No.	Parts No.	SP	Description
R276	1-216-672-11	s	METAL CHIP 7.5k 0.50% 1/10W	R541	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
R288	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W	R543	1-216-672-11	s	METAL CHIP 7.5k 0.50% 1/10W
R293	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W	R544	1-216-671-11	s	METAL CHIP 6.8k 0.50% 1/10W
R294	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W	R545	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R296	1-216-664-11	s	METAL CHIP 3.6k 0.50% 1/10W	R547	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R302	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W	R548	1-216-665-11	s	METAL CHIP 3.9k 0.50% 1/10W
R303	1-216-645-11	s	METAL CHIP 560 0.50% 1/10W	R549	1-216-698-11	s	METAL CHIP 91k 0.50% 1/10W
R304	1-216-018-00	s	CHIP 51 5% 1/10W	R550	1-216-680-11	s	METAL CHIP 16k 0.50% 1/10W
R312	1-216-642-11	s	METAL CHIP 430 0.50% 1/10W	R551	1-216-681-11	s	METAL CHIP 18k 0.50% 1/10W
R313	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W	R552	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R314	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W	R553	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R316	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W	R565	1-216-644-11	s	METAL CHIP 510 0.50% 1/10W
R317	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W	R566	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W
R330	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W	R567	1-216-686-11	s	METAL CHIP 30k 0.50% 1/10W
R337	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W	6) R571	1-216-687-11	s	METAL CHIP 33k 0.50% 1/10W
R338	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W	R581	1-216-634-11	s	METAL CHIP 200 0.50% 1/10W
R340	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W	R585	1-216-645-11	s	METAL CHIP 560 0.50% 1/10W
R341	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W	R586	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
R348	1-216-681-11	s	METAL CHIP 18k 0.50% 1/10W	R587	1-216-018-00	s	CHIP 51 5% 1/10W
R353	1-216-662-11	s	METAL CHIP 3k 0.50% 1/10W	R594	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
6) R354	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W	R595	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
R356	1-216-672-11	s	METAL CHIP 7.5k 0.50% 1/10W	R597	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R357	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W	R599	1-216-681-11	s	METAL CHIP 18k 0.50% 1/10W
R358	1-216-673-11	s	METAL CHIP 8.2k 0.50% 1/10W	R601	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R359	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W	R605	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W
R360	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W	R611	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R361	1-216-672-11	s	METAL CHIP 7.5k 0.50% 1/10W	R612	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R367	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W	R704	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W
R368	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R708	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R371	1-216-652-11	s	METAL CHIP 1.1k 0.50% 1/10W	R709	1-216-652-11	s	METAL CHIP 1.1k 0.50% 1/10W
R372	1-216-671-11	s	METAL CHIP 6.8k 0.50% 1/10W	R710	1-216-673-11	s	METAL CHIP 8.2k 0.50% 1/10W
R375	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R717	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
R376	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W	R718	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
R379	1-216-685-11	s	METAL CHIP 27k 0.50% 1/10W	R719	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
R380	1-216-666-11	s	METAL CHIP 4.3k 0.50% 1/10W	R720	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
R401	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	R807	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R405	1-216-639-11	s	METAL CHIP 330 0.50% 1/10W	R816	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R406	1-216-639-11	s	METAL CHIP 330 0.50% 1/10W	RV100	1-237-515-21	s	VAR, CERMET 1k
R407	1-216-647-11	s	METAL CHIP 680 0.50% 1/10W	RV101	1-237-514-21	s	VAR, CERMET 500
R411	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W	RV102	1-237-515-11	s	VAR, CERMET 1k
R412	1-216-669-11	s	METAL CHIP 5.6k 0.50% 1/10W	RV103	1-237-515-21	s	VAR, CERMET 1k
R426	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W	RV200	1-237-517-21	s	VAR, CERMET 5k
R431	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W	RV201	1-237-516-21	s	VAR, CERMET 2k
R432	1-216-647-11	s	METAL CHIP 680 0.50% 1/10W	RV202	1-230-847-11	s	VAR, METAL FILM 500k
R433	1-216-018-00	s	CHIP 51 5% 1/10W	RV203	1-237-518-21	s	VAR, CERMET 10k
R438	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W	RV400	1-237-514-21	s	VAR, CERMET 500
R507	1-216-634-11	s	METAL CHIP 200 0.50% 1/10W	RV401	1-237-516-21	s	VAR, CERMET 2k
R509	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W	RV402	1-237-515-21	s	VAR, CERMET 1k
R510	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W	RV500	1-237-516-21	s	VAR, CERMET 2k
R511	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W	RV501	1-237-516-21	s	VAR, CERMET 2k
R512	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	RV502	1-237-517-21	s	VAR, CERMET 5k
R513	1-216-619-11	s	METAL CHIP 47 0.50% 1/10W	RV503	1-537-518-21	s	VAR, CERMET 10k
R517	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	RV610	1-237-515-21	s	VAR, CERMET 1k
R518	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W	S100	1-553-977-00	s	SLIDE
R522	1-216-691-11	s	METAL CHIP 47k 0.50% 1/10W	S101	1-553-977-00	s	SLIDE
R523	1-216-699-11	s	METAL CHIP 100k 0.50% 1/10W	S200	1-553-977-00	s	SLIDE
R527	1-216-674-11	s	METAL CHIP 9.1k 0.50% 1/10W	S400	1-553-977-00	s	SLIDE
R528	1-216-660-11	s	METAL CHIP 2.4k 0.50% 1/10W				
R535	1-216-682-11	s	METAL CHIP 20k 0.50% 1/10W				
R536	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W				

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

TH201 1-800-198-XX s S-1K
 TH202 1-800-202-XX s S-10K
 TH501 1-800-198-XX s S-1K
 TH502 1-800-202-XX s S-10K

TBC-8 BOARD

This board includes the NR-25 board.

A-6711-810-C o MOUNTED CIRCUIT BOARD, TBC-8

C100	1-163-033-00	s	CERAMIC	0.022	50V
C101	1-163-033-00	s	CERAMIC	0.022	50V
C102	1-163-033-00	s	CERAMIC	0.022	50V
C103	1-163-033-00	s	CERAMIC	0.022	50V
C104	1-163-033-00	s	CERAMIC	0.022	50V
C105	1-162-637-11	s	CERAMIC	0.47	16V
C106	1-162-637-11	s	CERAMIC	0.47	16V
C107	1-162-637-11	s	CERAMIC	0.47	16V
C108	1-162-637-11	s	CERAMIC	0.47	16V
C113	1-163-033-00	s	CERAMIC	0.022	10% 25V
C114	1-163-033-00	s	CERAMIC	0.022	50V
C117	1-163-033-00	s	CERAMIC	0.022	50V
C118	1-163-033-00	s	CERAMIC	0.022	50V
C120	1-163-033-00	s	CERAMIC	0.022	50V
C122	1-162-638-11	s	CERAMIC	1	16V
C137	1-163-033-00	s	CERAMIC	0.022	50V
C138	1-163-033-00	s	CERAMIC	0.022	50V
C139	1-162-637-11	s	CERAMIC	0.47	16V
C140	1-162-637-11	s	CERAMIC	0.47	16V
C142	1-163-033-00	s	CERAMIC	0.022	50V
C144	1-163-033-00	s	CERAMIC	0.022	50V
C145	1-163-033-00	s	CERAMIC	0.022	50V
C146	1-162-637-11	s	CERAMIC	0.47	16V
C147	1-162-637-11	s	CERAMIC	0.47	16V
C200	1-162-637-11	s	CERAMIC	0.47	16V
C201	1-162-637-11	s	CERAMIC	0.47	16V
C202	1-163-033-00	s	CERAMIC	0.022	50V
C203	1-123-875-11	s	ELECT	10	20% 50V
C205	1-163-033-00	s	CERAMIC	0.022	50V
C207	1-163-033-00	s	CERAMIC	0.022	50V
C208	1-163-033-00	s	CERAMIC	0.022	50V
C210	1-162-638-11	s	CERAMIC	1	16V
C211	1-163-033-00	s	CERAMIC	0.022	50V
C212	1-163-033-00	s	CERAMIC	0.022	50V
C213	1-163-033-00	s	CERAMIC	0.022	50V
C214	1-163-033-00	s	CERAMIC	0.022	50V
C216	1-163-033-00	s	CERAMIC	0.022	50V
C218	1-162-637-11	s	CERAMIC	0.47	16V
C219	1-163-033-00	s	CERAMIC	0.022	50V
C221	1-163-033-00	s	CERAMIC	0.022	50V
C222	1-163-033-00	s	CERAMIC	0.022	50V
C300	1-163-033-00	s	CERAMIC	0.022	50V
C301	1-163-033-00	s	CERAMIC	0.022	50V
C307	1-163-247-11	s	CERAMIC	68pF	5% 50V
C308	1-163-247-11	s	CERAMIC	68pF	5% 50V
C400	1-162-637-11	s	CERAMIC	0.47	16V
C401	1-162-637-11	s	CERAMIC	0.47	16V
C402	1-162-637-11	s	CERAMIC	0.47	16V
C403	1-162-637-11	s	CERAMIC	0.47	16V
C408	1-163-033-00	s	CERAMIC	0.022	50V

Ref.No. Parts No. SP Description

C409	1-163-033-00	s	CERAMIC	0.022	50V
C420	1-163-033-00	s	CERAMIC	0.022	50V
C421	1-163-033-00	s	CERAMIC	0.022	50V
C422	1-163-033-00	s	CERAMIC	0.022	50V
C423	1-163-033-00	s	CERAMIC	0.022	50V
C428	1-163-033-00	s	CERAMIC	0.022	50V
C442	1-163-033-00	s	CERAMIC	0.022	50V
C443	1-163-033-00	s	CERAMIC	0.022	50V
C444	1-163-033-00	s	CERAMIC	0.022	50V
C500	1-163-033-00	s	CERAMIC	0.022	50V
C501	1-162-637-11	s	CERAMIC	0.47	16V
C502	1-162-637-11	s	CERAMIC	0.47	16V
C503	1-162-637-11	s	CERAMIC	0.47	16V
C504	1-163-033-00	s	CERAMIC	0.022	50V
C505	1-123-875-11	s	ELECT	10	20% 50V
C506	1-123-875-11	s	ELECT	10	20% 50V
C507	1-163-033-00	s	CERAMIC	0.022	50V
C509	1-163-033-00	s	CERAMIC	0.022	50V
C511	1-163-033-00	s	CERAMIC	0.022	50V
C512	1-163-033-00	s	CERAMIC	0.022	50V
C513	1-162-638-11	s	CERAMIC	1	16V
C514	1-163-033-00	s	CERAMIC	0.022	50V
C515	1-123-875-11	s	ELECT	10	20% 50V
C518	1-163-033-00	s	CERAMIC	0.022	50V
C520	1-163-033-00	s	CERAMIC	0.022	50V
C521	1-163-033-00	s	CERAMIC	0.022	50V
C523	1-163-033-00	s	CERAMIC	0.022	50V
C524	1-163-033-00	s	CERAMIC	0.022	50V
C525	1-163-033-00	s	CERAMIC	0.022	50V
C526	1-163-033-00	s	CERAMIC	0.022	50V
C527	1-162-638-11	s	CERAMIC	1	16V
C529	1-123-875-11	s	ELECT	10	20% 50V
C530	1-163-033-00	s	CERAMIC	0.022	50V
C532	1-163-033-00	s	CERAMIC	0.022	50V
C535	1-162-637-11	s	CERAMIC	0.47	16V
C536	1-163-033-00	s	CERAMIC	0.022	50V
C540	1-163-033-00	s	CERAMIC	0.022	50V
C543	1-163-033-00	s	CERAMIC	0.022	50V
C603	1-163-037-11	s	CERAMIC	0.022	10% 25V
C901	1-163-033-00	s	CERAMIC	0.022	50V
C902	1-163-033-00	s	CERAMIC	0.022	50V
C904	1-163-033-00	s	CERAMIC	0.022	50V
C906	1-163-033-00	s	CERAMIC	0.022	50V
C911	1-163-033-00	s	CERAMIC	0.022	50V
C913	1-163-033-00	s	CERAMIC	0.022	50V
C915	1-163-033-00	s	CERAMIC	0.022	50V
C917	1-163-033-00	s	CERAMIC	0.022	50V
C918	1-163-033-00	s	CERAMIC	0.022	50V
C920	1-163-033-00	s	CERAMIC	0.022	50V

CN106 1-506-746-11 s DIN 48P
 CN107 1-506-748-11 s DIN 96P
 CN700 1-564-410-11 s 40P

1) CV101 1-141-245-11 s TRIMMER, CERAMIC 30pF
 2) CV101 1-141-404-11 s TRIMMER, CERAMIC 30pF
 1) CV102 1-141-245-11 s TRIMMER, CERAMIC 30pF
 2) CV102 1-141-404-11 s TRIMMER, CERAMIC 30pF
 1) CV103 1-141-245-11 s TRIMMER, CERAMIC 30pF
 2) CV103 1-141-404-11 s TRIMMER, CERAMIC 30pF

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description	Ref.No.	Parts No.	SP	Description
D201	8-719-105-52	s	RD3.6M-B2	L201	1-410-478-11	s	MICRO 47
D202	8-719-101-23	s	1SS123	L202	1-410-478-11	s	MICRO 47
D400	8-719-101-23	s	1SS123	L203	1-410-478-11	s	MICRO 47
D500	8-719-106-17	s	RD6.8M-B2	L300	1-410-478-11	s	MICRO 47
D501	8-719-106-17	s	RD6.8M-B2	L301	1-410-478-11	s	MICRO 47
IC100	8-759-012-13	s	MC10H125M (MOTOROLA)	L400	1-410-470-11	s	MICRO 10
IC101	8-759-942-28	s	CXD1022CQ (SONY)	L401	1-410-470-11	s	MICRO 10
	8-759-987-09	s	CXD8011AQ (SONY)	L500	1-410-478-11	s	MICRO 47
IC102	8-759-208-76	s	CXD1023AQ (SONY)	L501	1-410-478-11	s	MICRO 47
IC103	8-741-159-60	s	SBX1596-01 (SONY)	L502	1-410-478-11	s	MICRO 47
IC104	8-759-201-41	s	TD62901P (TOSHIBA)	L503	1-410-478-11	s	MICRO 47
IC106	8-759-981-99	s	RC4560M (RAYTHEON)	L504	1-410-478-11	s	MICRO 47
IC107	8-759-945-29	s	TL601CPS (TI)	L505	1-410-478-11	s	MICRO 47
IC108	8-759-904-80	s	74F04PC (FSC)	L900	1-421-329-00	s	CHOKE
IC109	8-759-204-96	s	TC74HC04F (TOSHIBA)	L901	1-421-329-00	s	CHOKE
IC110	8-759-204-96	s	TC74HC04F (TOSHIBA)	L902	1-421-329-00	s	CHOKE
5) IC112	8-759-948-35	s	CXD1309BQ (SONY)	L903	1-421-329-00	s	CHOKE
6) IC112	8-759-983-11	s	CXD8024Q (SONY)	L904	1-421-329-00	s	CHOKE
IC113	8-759-948-37	s	CXD1326AQ (SONY)				
IC114	8-759-930-50	s	SN74LS157NS (TI)	Q201	8-729-100-66	s	2SC1623
IC200	8-752-322-72	s	CXK1202S (SONY)	Q202	8-729-102-07	s	2SC2223
IC201	8-759-208-88	s	CXD1131Q (SONY)	Q203	8-729-102-07	s	2SC2223
IC202	8-759-981-99	s	RC4560M (RAYTHEON)	Q204	8-729-100-66	s	2SC1623
IC203	8-759-508-58	s	MB40778H (FUJITSU)	Q205	8-729-109-43	s	2SK94-X3
IC204	8-759-981-99	s	RC4560M (RAYTHEON)				
IC400	8-759-987-09	s	CXD8011AQ (SONY)	Q400	8-729-100-66	s	2SC1623
	8-759-942-28	s	CXD1022CQ (SONY)	Q401	8-729-100-76	s	2SA812
IC401	8-759-208-76	s	CXD1023AQ (SONY)	Q402	8-729-100-76	s	2SA812
IC402	8-741-159-60	s	SBX1596-01 (SONY)	Q500	8-729-100-66	s	2SC1623
IC403	8-759-205-08	s	TC74HC86F (TOSHIBA)	Q501	8-729-100-66	s	2SC1623
IC404	8-759-239-58	s	TC74HC221AF (TOSHIBA)	Q502	8-729-100-66	s	2SC1623
IC405	8-749-901-21	s	BX1461 (SONY)	Q503	8-729-100-66	s	2SC1623
IC406	8-759-208-11	s	TC4053BFHB (TOSHIBA)	Q504	8-729-100-66	s	2SC1623
IC407	8-759-908-17	s	TL082CPS (TI)	Q505	8-729-100-66	s	2SC1623
IC408	8-759-907-81	s	SN74LS221NS (TI)	Q900	8-729-106-68	s	2SD1615A
IC409	8-759-204-96	s	TC74HC04F (TOSHIBA)				
IC500	8-752-322-72	s	CXK1202S (SONY)	R138	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W
IC501	8-752-322-72	s	CXK1202S (SONY)	R139	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W
IC502	8-759-208-88	s	CXD1131Q (SONY)	R140	1-216-680-11	s	METAL CHIP 16k 0.50% 1/10W
IC503	8-759-012-13	s	MC10H125M (MOTOROLA)	R141	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
				R142	1-216-662-11	s	METAL CHIP 3k 0.50% 1/10W
IC504	8-759-204-94	s	TC74HC00F (TOSHIBA)	R143	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W
IC505	8-759-001-98	s	MC10198L (MOTOROLA)	R144	1-216-676-11	s	METAL CHIP 11k 0.50% 1/10W
IC506	8-759-508-58	s	MB40778H (FUJITSU)	R145	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
IC507	8-759-508-58	s	MB40778H (FUJITSU)	R146	1-216-672-11	s	METAL CHIP 7.5k 0.50% 1/10W
IC508	8-759-907-81	s	SN74LS221NS (TI)	R202	1-216-672-11	s	METAL CHIP 7.5k 0.50% 1/10W
IC509	8-759-981-99	s	RC4560M (RAYTHEON)	R203	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
IC510	8-759-204-98	s	TC74HC08F (TOSHIBA)	R204	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
IC512	8-759-205-03	s	TC74HC27F (TOSHIBA)	R205	1-216-661-11	s	METAL CHIP 2.7k 0.50% 1/10W
IC601	8-759-205-06	s	TC74HC74F (TOSHIBA)	R206	1-216-674-11	s	METAL CHIP 9.1k 0.50% 1/10W
IC602	8-759-907-81	s	TC74HC74F (TOSHIBA)	R208	1-216-677-11	s	METAL CHIP 12k 0.50% 1/10W
IC603	8-759-930-50	s	TC74HC74F (TOSHIBA)	R209	1-216-676-11	s	METAL CHIP 11k 0.50% 1/10W
IC900	8-759-908-15	s	TL431CLP (TI)	R214	1-216-619-11	s	METAL CHIP 47 0.50% 1/10W
				R216	1-216-660-11	s	METAL CHIP 2.4k 0.50% 1/10W
L100	1-410-470-11	s	MICRO 10	R217	1-216-672-11	s	METAL CHIP 7.5k 0.50% 1/10W
L101	1-410-470-11	s	MICRO 10	R220	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
L102	1-410-470-11	s	MICRO 10	R223	1-216-678-11	s	METAL CHIP 13k 0.50% 1/10W
L103	1-410-470-11	s	MICRO 10	R224	1-216-653-11	s	METAL CHIP 1.2k 0.50% 1/10W
L200	1-410-478-11	s	MICRO 47	R225	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W
				R226	1-216-641-11	s	METAL CHIP 390 0.50% 1/10W
				R227	1-216-655-11	s	METAL CHIP 1.5k 0.50% 1/10W

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Ref.No.	Parts No.	SP	Description			
R229	1-216-679-11	s	METAL CHIP 15k	0.50%	1/10W	
R418	1-216-677-11	s	METAL CHIP 12k	0.50%	1/10W	
R424	1-216-683-11	s	METAL CHIP 22k	0.50%	1/10W	
R425	1-216-673-11	s	METAL CHIP 8.2k	0.50%	1/10W	
R426	1-216-675-11	s	METAL CHIP 10k	0.50%	1/10W	
R427	1-216-655-11	s	METAL CHIP 1.5k	0.50%	1/10W	
R428	1-216-655-11	s	METAL CHIP 1.5k	0.50%	1/10W	
R430	1-216-659-11	s	METAL CHIP 2.2k	0.50%	1/10W	
R432	1-216-666-11	s	METAL CHIP 4.3k	0.50%	1/10W	
R433	1-216-667-11	s	METAL CHIP 4.7k	0.50%	1/10W	
R510	1-216-679-11	s	METAL CHIP 15k	0.50%	1/10W	
R511	1-216-679-11	s	METAL CHIP 15k	0.50%	1/10W	
R512	1-216-672-11	s	METAL CHIP 7.5k	0.50%	1/10W	
R513	1-216-679-11	s	METAL CHIP 15k	0.50%	1/10W	
R514	1-216-661-11	s	METAL CHIP 2.7k	0.50%	1/10W	
R515	1-216-674-11	s	METAL CHIP 9.1k	0.50%	1/10W	
R520	1-216-646-11	s	METAL CHIP 620	0.50%	1/10W	
R521	1-216-653-11	s	METAL CHIP 1.2k	0.50%	1/10W	
R524	1-216-624-11	s	METAL CHIP 75	0.50%	1/10W	
R529	1-216-660-11	s	METAL CHIP 2.4k	0.50%	1/10W	
R530	1-216-674-11	s	METAL CHIP 9.1k	0.50%	1/10W	
R535	1-216-646-11	s	METAL CHIP 620	0.50%	1/10W	
R536	1-216-653-11	s	METAL CHIP 1.2k	0.50%	1/10W	
R539	1-216-624-11	s	METAL CHIP 75	0.50%	1/10W	
R540	1-216-677-11	s	METAL CHIP 12k	0.50%	1/10W	
R541	1-216-660-11	s	METAL CHIP 2.4k	0.50%	1/10W	
R542	1-216-678-11	s	METAL CHIP 13k	0.50%	1/10W	
R546	1-216-635-11	s	METAL CHIP 220	0.50%	1/10W	
R549	1-216-682-11	s	METAL CHIP 20k	0.50%	1/10W	
R571	1-216-635-11	s	METAL CHIP 220	0.50%	1/10W	
R572	1-216-635-11	s	METAL CHIP 220	0.50%	1/10W	
R573	1-216-677-11	s	METAL CHIP 12k	0.50%	1/10W	
R605	1-216-679-11	s	METAL CHIP 15k	0.50%	1/10W	
R606	1-216-665-11	s	METAL CHIP 3.9k	0.50%	1/10W	
R901	1-216-675-11	s	METAL CHIP 10k	0.50%	1/10W	
R902	1-216-675-11	s	METAL CHIP 10k	0.50%	1/10W	
RV200	1-237-501-11	s	VAR, CERMET 2k			
RV400	1-237-514-11	s	VAR, CERMET 500			
RV500	1-237-501-11	s	VAR, CERMET 2k			
RV501	1-237-501-11	s	VAR, CERMET 2k			
RV502	1-237-499-11	s	VAR, CERMET 500			
RV601	1-237-518-11	s	VAR, CERMET 10k			

S500 1-554-149-21 s DIP

TBC-9 BOARD

A-6711-811-B o MOUNTED CIRCUIT BOARD, TBC-9

C3	1-162-638-11	s	CERAMIC 1	16V	
C4	1-163-033-00	s	CERAMIC 0.022	50V	
C5	1-163-033-00	s	CERAMIC 0.022	50V	
C9	1-135-083-00	s	TANTAL 0.47	10%	25V
C10	1-163-033-00	s	CERAMIC 0.022	50V	

Ref.No.	Parts No.	SP	Description			
C13	1-163-033-00	s	CERAMIC 0.022	50V		
C15	1-124-462-00	s	ELECT 10	20%	16V	
C17	1-163-033-00	s	CERAMIC 0.022	50V		
C19	1-163-033-00	s	CERAMIC 0.022	50V		
C20	1-135-083-00	s	TANTAL 0.47	10%	25V	
C21	1-124-462-00	s	ELECT 10	20%	16V	
C22	1-124-462-00	s	ELECT 10	20%	16V	
C24	1-163-033-00	s	CERAMIC 0.022	50V		
C25	1-163-033-00	s	CERAMIC 0.022	50V		
C27	1-163-033-00	s	CERAMIC 0.022	50V		
C32	1-163-033-00	s	CERAMIC 0.022	50V		
C33	1-163-033-00	s	CERAMIC 0.022	50V		
C35	1-163-033-00	s	CERAMIC 0.022	50V		
C36	1-163-033-00	s	CERAMIC 0.022	50V		
C38	1-163-033-00	s	CERAMIC 0.022	50V		
C39	1-162-638-11	s	CERAMIC 1	16V		
C41	1-163-033-00	s	CERAMIC 0.022	50V		
C43	1-163-033-00	s	CERAMIC 0.022	50V		
C45	1-163-033-00	s	CERAMIC 0.022	50V		
C47	1-162-638-11	s	CERAMIC 1	16V		
C50	1-163-033-00	s	CERAMIC 0.022	50V		
C52	1-163-037-11	s	CERAMIC 0.022	25V		
C59	1-163-033-00	s	CERAMIC 0.022	50V		
C60	1-163-033-00	s	CERAMIC 0.022	50V		
C64	1-163-033-00	s	CERAMIC 0.022	50V		
C66	1-163-033-00	s	CERAMIC 0.022	50V		
C73	1-163-033-00	s	CERAMIC 0.022	50V		
C75	1-163-033-00	s	CERAMIC 0.022	50V		
C77	1-163-033-00	s	CERAMIC 0.022	50V		
C81	1-163-033-00	s	CERAMIC 0.022	50V		
C83	1-163-033-00	s	CERAMIC 0.022	50V		
C86	1-163-033-00	s	CERAMIC 0.022	50V		
C89	1-163-033-00	s	CERAMIC 0.022	50V		
C91	1-135-083-00	s	TANTAL 0.47	10%	25V	
C92	1-124-462-00	s	ELECT 10	20%	16V	
C93	1-163-033-00	s	CERAMIC 0.022	50V		
C96	1-163-033-00	s	CERAMIC 0.022	50V		
C98	1-163-033-00	s	CERAMIC 0.022	50V		
C99	1-163-033-00	s	CERAMIC 0.022	50V		
C101	1-163-033-00	s	CERAMIC 0.022	50V		
C102	1-163-033-00	s	CERAMIC 0.022	50V		
C103	1-163-033-00	s	CERAMIC 0.022	50V		
C104	1-163-033-00	s	CERAMIC 0.022	50V		
C105	1-163-033-00	s	CERAMIC 0.022	50V		
C106	1-163-033-00	s	CERAMIC 0.022	50V		
C107	1-163-033-00	s	CERAMIC 0.022	50V		
C108	1-163-033-00	s	CERAMIC 0.022	50V		
C109	1-163-033-00	s	CERAMIC 0.022	50V		
C111	1-163-033-00	s	CERAMIC 0.022	50V		
C113	1-163-033-00	s	CERAMIC 0.022	50V		
C114	1-163-033-00	s	CERAMIC 0.022	50V		
C115	1-163-033-00	s	CERAMIC 0.022	50V		
C117	1-163-033-00	s	CERAMIC 0.022	50V		
C119	1-163-033-00	s	CERAMIC 0.022	50V		
C123	1-163-033-00	s	CERAMIC 0.022	50V		
C124	1-163-033-00	s	CERAMIC 0.022	50V		
C125	1-163-033-00	s	CERAMIC 0.022	50V		
C126	1-163-033-00	s	CERAMIC 0.022	50V		
C127	1-163-033-00	s	CERAMIC 0.022	50V		
C129	1-163-033-00	s	CERAMIC 0.022	50V		
C132	1-163-033-00	s	CERAMIC 0.022	50V		
C134	1-163-033-00	s	CERAMIC 0.022	50V		
C135	1-163-033-00	s	CERAMIC 0.022	50V		
C137	1-163-033-00	s	CERAMIC 0.022	50V		
C200	1-163-033-00	s	CERAMIC 0.022	50V		

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Ref.No. Parts No. SP Description

C201 1-163-033-00 s CERAMIC 0.022 50V
 C203 1-163-033-00 s CERAMIC 0.022 50V
 C204 1-163-033-00 s CERAMIC 0.022 50V
 C208 1-135-091-00 s TANTAL 1 10% 16V
 C210 1-163-033-00 s CERAMIC 0.022 50V

C214 1-163-033-00 s CERAMIC 0.022 50V
 C215 1-163-033-00 s CERAMIC 0.022 50V
 C216 1-131-096-00 s TANTAL 4.7 10% 16V
 C217 1-102-074-00 s CERAMIC 1000pF
 C301 1-163-037-11 s CERAMIC 0.022 10% 25V

C302 1-163-037-11 s CERAMIC 0.022 10% 25V

CN101 1-506-748-11 s DIN 96P

CP1 1-577-089-11 s OSCILLATOR 14.31818MHz
 CP2 1-577-089-11 s OSCILLATOR 14.31818MHz
 CP3 1-577-089-11 s OSCILLATOR 14.31818MHz

D1 8-719-100-03 s 1S2835
 D200 8-719-101-23 s 1SS123
 D201 8-719-105-58 s RD3.9M-B2
 D202 8-719-101-23 s 1SS123
 D203 8-719-100-03 s 1S2835

D204 8-719-106-08 s RD6.2M-B2
 D205 8-719-101-23 s 1SS123

IC1 8-759-204-94 s TC74HC00F (TOSHIBA)
 IC2 8-752-006-13 s CX20061 (SONY)
 IC4 8-752-335-47 s CXD1216M (SONY)
 IC5 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC6 8-752-332-67 s CXD1217M (SONY)

IC7 8-759-239-58 s TC74HC221AF (TOSHIBA)
 IC9 8-759-239-58 s TC74HC221AF (TOSHIBA)
 IC10 8-752-332-67 s CXD1217M (SONY)
 IC11 8-759-205-08 s TC74HC86F (TOSHIBA)
 IC12 8-759-908-17 s TL082CPS (TI)

IC13 8-759-902-88 s SN74LS123NS (TI)
 IC14 8-759-700-95 s NJM1496M (JRC)
 IC16 8-759-205-05 s TC74HC32F (TOSHIBA)
 IC17 8-759-100-93 s uPC393G2 (NEC)
 IC18 8-759-908-17 s TL082CPS (TI)

IC19 8-759-008-52 s MC74HC123AF (MOTOROLA)
 IC20 8-759-908-15 s TL431CLP (TI)
 IC21 8-752-335-47 s CXD1216M (SONY)
 IC22 8-759-207-66 s CXD1024Q (SONY)
 IC23 8-752-332-67 s CXD1217M (SONY)

IC24 8-759-918-35 s CX20162 (SONY)
 IC25 8-759-904-84 s 74F74PC (FSC)
 IC26 8-759-929-83 s SN74LS11NS (TI)
 IC27 8-759-205-06 s TC74HC74F (TOSHIBA)
 IC28 8-759-204-96 s TC74HC04F (TOSHIBA)

IC29 8-759-205-23 s TC74HC244F (TOSHIBA)
 IC30 8-759-930-57 s SN74LS164NS (TI)
 IC31 8-759-012-02 s MC10HL24M (MOTOROLA)
 IC32 8-759-205-23 s TC74HC244F (TOSHIBA)
 IC33 8-759-008-52 s MC74HC123AF (MOTOROLA)

Ref.No. Parts No. SP Description

IC34 8-759-929-83 s SN74LS11NS (TI)
 IC35 8-759-205-08 s TC74HC86F (TOSHIBA)
 IC36 8-759-930-57 s SN74LS164NS (TI)
 IC37 8-759-908-15 s TL431CLP (TI)
 IC38 8-759-205-06 s TC74HC74F (TOSHIBA)

IC40 8-759-205-06 s TC74HC74F (TOSHIBA)
 IC41 8-759-907-81 s SN74LS221NS (TI)
 IC42 8-759-907-81 s SN74LS221NS (TI)
 IC200 8-759-941-27 s MB4002FF (FUJITSU)
 IC201 8-759-908-17 s TL082CPS (TI)

IC202 8-759-945-29 s TL601CPS (TI)
 IC203 8-759-105-49 s uPC319G2 (NEC)
 IC204 8-759-239-58 s TC74HC221AF (TOSHIBA)
 IC300 8-759-204-96 s TC74HC04F (TOSHIBA)
 IC301 8-759-205-05 s TC74HC32F (TOSHIBA)

IC302 8-759-930-57 s SN74LS164NS (TI)
 IC303 8-759-930-57 s SN74LS164NS (TI)

L1 1-410-478-11 s MICRO 47
 L2 1-410-478-11 s MICRO 47
 L3 1-410-478-11 s MICRO 47
 L4 1-410-478-11 s MICRO 47
 L5 1-410-478-11 s MICRO 47

L6 1-410-478-11 s MICRO 47
 L7 1-410-478-11 s MICRO 47
 L8 1-410-478-11 s MICRO 47
 L10 1-410-478-11 s MICRO 47
 L12 1-410-478-11 s MICRO 47

L15 1-410-470-11 s MICRO 10
 L16 1-410-478-11 s MICRO 47
 L17 1-410-478-11 s MICRO 47
 L19 1-410-478-11 s MICRO 47
 L20 1-410-478-11 s MICRO 47

L21 1-410-478-11 s MICRO 47
 L22 1-410-478-11 s MICRO 47
 L23 1-410-478-11 s MICRO 47
 L24 1-410-478-11 s MICRO 47
 L25 1-410-478-11 s MICRO 47

L26 1-410-478-11 s MICRO 47
 L27 1-410-478-11 s MICRO 47
 L28 1-421-329-00 s CHOKE
 L29 1-421-329-00 s CHOKE
 L31 1-421-329-00 s CHOKE

L32 1-421-329-00 s CHOKE
 L34 1-421-329-00 s CHOKE
 L35 1-410-478-11 s MICRO 47
 L36 1-410-478-11 s MICRO 47
 L201 1-410-482-31 s MICRO 100

L202 1-410-478-11 s MICRO 47

Q1 8-729-100-66 s 2SC1623
 Q2 8-729-100-66 s 2SC1623
 Q3 8-729-100-66 s 2SC1623
 Q4 8-729-100-76 s 2SA812
 Q5 8-729-100-66 s 2SC1623

Q6 8-729-100-76 s 2SA812
 Q7 8-729-100-66 s 2SC1623
 Q11 8-729-100-66 s 2SC1623
 Q12 8-729-100-66 s 2SC1623
 Q13 8-729-100-66 s 2SC1623

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Ref.No.	Parts No.	SP	Description
Q14	8-729-122-63	s	2SA1226
Q15	8-729-100-66	s	2SC1623
Q16	8-729-100-66	s	2SC1623
Q17	8-729-122-63	s	2SA1226
Q18	8-729-100-66	s	2SC1623
Q19	8-729-100-66	s	2SC1623
Q20	8-729-106-68	s	2SD1615A
Q200	8-729-100-66	s	2SC1623
Q201	8-729-109-42	s	2SK94
Q202	8-729-109-42	s	2SK94
Q203	8-729-100-66	s	2SC1623
Q204	8-729-109-42	s	2SK94
Q205	8-729-100-66	s	2SC1623
R23	1-216-673-11	s	METAL CHIP 8.2k 0.50% 1/10W
R24	1-216-673-11	s	METAL CHIP 8.2k 0.50% 1/10W
R28	1-216-668-11	s	METAL CHIP 5.1k 0.50% 1/10W
R29	1-216-676-11	s	METAL CHIP 11k 0.50% 1/10W
R34	1-216-669-11	s	METAL CHIP 5.6k 0.50% 1/10W
R35	1-216-671-11	s	METAL CHIP 6.8k 0.50% 1/10W
R39	1-216-684-11	s	METAL CHIP 24k 0.50% 1/10W
R40	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R42	1-216-671-11	s	METAL CHIP 6.8k 0.50% 1/10W
R43	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R47	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R48	1-216-683-11	s	METAL CHIP 22k 0.50% 1/10W
R49	1-216-681-11	s	METAL CHIP 18k 0.50% 1/10W
R50	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R53	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R55	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W
R56	1-216-667-11	s	METAL CHIP 4.7k 0.50% 1/10W
R58	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R61	1-216-636-11	s	METAL CHIP 240 0.50% 1/10W
R68	1-216-674-11	s	METAL CHIP 9.1k 0.50% 1/10W
R69	1-216-650-11	s	METAL CHIP 910 0.50% 1/10W
R70	1-216-649-11	s	METAL CHIP 820 0.50% 1/10W
R75	1-216-641-11	s	METAL CHIP 390 0.50% 1/10W
R76	1-216-018-00	s	CHIP 51 5% 1/10W
R77	1-216-018-00	s	CHIP 51 5% 1/10W
R78	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R79	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R82	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R83	1-216-635-11	s	METAL CHIP 220 0.50% 1/10W
R86	1-216-650-11	s	METAL CHIP 910 0.50% 1/10W
R92	1-216-624-11	s	METAL CHIP 75 0.50% 1/10W
R93	1-216-699-11	s	METAL CHIP 100k 0.50% 1/10W
R94	1-216-679-11	s	METAL CHIP 15k 0.50% 1/10W
R95	1-216-624-11	s	METAL CHIP 75 0.50% 1/10W
R97	1-216-674-11	s	METAL CHIP 9.1k 0.50% 1/10W
R98	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R103	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R104	1-216-666-11	s	METAL CHIP 4.3k 0.50% 1/10W
R108	1-216-690-11	s	METAL CHIP 43k 0.50% 1/10W
R109	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R110	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R120	1-216-665-11	s	METAL CHIP 3.9k 0.50% 1/10W
R138	1-216-670-11	s	METAL CHIP 6.2k 0.50% 1/10W
R139	1-216-660-11	s	METAL CHIP 2.4k 0.50% 1/10W
R181	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R182	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R183	1-216-663-11	s	METAL CHIP 3.3k 0.50% 1/10W
R184	1-216-684-11	s	METAL CHIP 24k 0.50% 1/10W
R185	1-216-659-11	s	METAL CHIP 2.2k 0.50% 1/10W
R186	1-216-685-11	s	METAL CHIP 27k 0.50% 1/10W

Ref.No.	Parts No.	SP	Description
R189	1-216-661-11	s	METAL CHIP 2.7k 1% 1/8W
R216	1-216-649-11	s	METAL CHIP 820 0.50% 1/10W
R221	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R222	1-216-651-11	s	METAL CHIP 1k 0.50% 1/10W
R229	1-216-668-11	s	METAL CHIP 5.1k 0.50% 1/10W
R230	1-216-682-11	s	METAL CHIP 20k 0.50% 1/10W
R232	1-247-903-31	s	CARBON 1M 0.50% 1/4W
R233	1-247-855-11	s	CARBON 10k 0.50% 1/4W
R332	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
R333	1-216-675-11	s	METAL CHIP 10k 0.50% 1/10W
RV1	1-237-517-21	s	VAR, CERMET 5k
RV2	1-237-517-21	s	VAR, CERMET 5k
RV3	1-237-517-21	s	VAR, CERMET 5k
RV4	1-237-519-21	s	VAR, CERMET 20k
RV5	1-237-518-21	s	VAR, CERMET 10k
RV8	1-237-518-21	s	VAR, CERMET 10k
RV9	1-237-514-21	s	VAR, CERMET 500
RV10	1-237-518-21	s	VAR, CERMET 10k
RV11	1-237-517-21	s	VAR, CERMET 5k
RV12	1-237-518-21	s	VAR, CERMET 10k
RV13	1-237-518-21	s	VAR, CERMET 10k
RV14	1-237-518-21	s	VAR, CERMET 10k
RV15	1-237-518-21	s	VAR, CERMET 10k
S3	1-571-967-11	s	DIP
S4	1-571-967-11	s	DIP

TH1 1-800-202-XX s S-10K

TC-40 BOARD

A-6717-444-A o MOUNTED CIRCUIT BOARD, TC-40

Ref.No.	Parts No.	SP	Description
C32	1-163-133-00	s	CERAMIC 470pF 5% 50V
C37	1-163-133-00	s	CERAMIC 470pF 5% 50V
C59	1-124-477-11	s	ELECT 47 20% 25V
C60	1-124-477-11	s	ELECT 47 20% 25V
C201	1-124-477-11	s	ELECT 47 20% 25V
C203	1-124-477-11	s	ELECT 47 20% 25V
C205	1-124-477-11	s	ELECT 47 20% 25V
C215	1-124-477-11	s	ELECT 47 20% 25V
C216	1-124-477-11	s	ELECT 47 20% 25V
C218	1-124-477-11	s	ELECT 47 20% 25V
C219	1-124-477-11	s	ELECT 47 20% 25V
C221	1-124-589-11	s	ELECT 47 20% 16V
C222	1-126-103-11	s	ELECT 470 20% 16V
C223	1-163-033-00	s	CERAMIC 0.022 50V
C224	1-126-103-11	s	ELECT 470 20% 16V
C225	1-163-033-00	s	CERAMIC 0.022 50V
C229	1-124-477-11	s	ELECT 47 20% 25V
C230	1-124-589-11	s	ELECT 47 20% 16V
C231	1-124-462-00	s	ELECT 10 20% 16V
C233	1-124-589-11	s	ELECT 47 20% 16V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

C234 1-124-589-11 s ELECT 47 20% 16V
 C236 1-124-477-11 s ELECT 47 20% 25V
 C239 1-124-589-11 s ELECT 47 20% 16V
 C240 1-124-589-11 s ELECT 47 20% 16V
 C241 1-124-589-11 s ELECT 47 20% 16V

C242 1-124-589-11 s ELECT 47 20% 16V
 C246 1-124-499-11 s ELECT 1 20% 50V
 C253 1-124-477-11 s ELECT 47 20% 10V
 C254 1-124-477-11 s ELECT 47 20% 10V
 C256 1-124-462-00 s ELECT 10 20% 16V

C257 1-124-477-11 s ELECT 47 20% 25V
 C272 1-126-103-11 s ELECT 470 20% 16V
 C273 1-126-103-11 s ELECT 470 20% 16V
 C276 1-124-899-00 s ELECT 22 20% 25V
 C277 1-124-899-00 s ELECT 22 20% 25V

C279 1-124-477-11 s ELECT 47 20% 25V
 C280 1-124-499-11 s ELECT 1 20% 50V
 C403 1-124-477-11 s ELECT 47 20% 25V
 C405 1-124-477-11 s ELECT 47 20% 25V
 C406 1-124-499-11 s ELECT 1 20% 50V

CN205 1-506-748-11 s DIN 96P

CP1 1-464-800-13 s OSCILLATOR BLOCK, ERASE

D1 8-719-100-03 s 1S2835
 D2 8-719-100-03 s 1S2835
 D3 8-719-100-03 s 1S2835
 D4 8-719-100-03 s 1S2835
 D5 8-719-100-03 s 1S2835

D151 8-719-911-19 s 1SS119
 D152 8-719-911-19 s 1SS119
 D201 8-719-101-23 s 1SS123
 D203 8-719-101-23 s 1SS123
 D204 8-719-101-23 s 1SS123

D206 8-719-100-03 s 1S2835
 D207 8-719-101-23 s 1SS123
 D251 8-719-911-19 s 1SS119
 D252 8-719-911-19 s 1SS119
 D401 8-719-100-03 s 1S2835

D403 8-719-100-03 s 1S2835

IC1 8-759-700-94 s NJM5532M (JRC)
 IC2 8-759-700-94 s NJM5532M (JRC)
 IC3 8-759-700-94 s NJM5532M (JRC)
 IC201 8-759-700-43 s NJM4558M (JRC)
 IC202 8-759-700-43 s NJM4558M (JRC)

IC203 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC204 8-759-700-07 s NJM2903M (JRC)
 IC205 8-759-208-09 s TC4052BFHB (TOSHIBA)
 IC206 8-759-981-48 s TL082M (TI)
 IC207 8-759-208-09 s TC4052BFHB (TOSHIBA)

IC208 8-759-700-43 s NJM4558M (JRC)
 IC209 8-759-208-11 s TC4053BFHB (TOSHIBA)
 IC210 8-759-700-43 s NJM4558M (JRC)
 IC211 8-759-705-62 s NJM4562D-D (JRC)
 IC212 8-759-200-90 s TC4538BF (TOSHIBA)

Ref.No. Parts No. SP Description

IC213 8-759-200-77 s TC4028BF (TOSHIBA)
 IC214 8-759-204-06 s TC4075BF (TOSHIBA)
 IC215 8-759-745-56 s NJM4556D (JRC)
 IC216 8-759-700-43 s NJM4558M (JRC)
 IC401 8-759-970-83 s MB88525-190M (FUJITSU)

IC402 8-759-301-13 s HD14584BFP (HITACHI)
 IC403 8-759-200-82 s TC4069UBF (TOSHIBA)
 IC404 8-759-914-03 s SN74LS06N (TI)
 IC405 8-759-200-82 s TC4069UBF (TOSHIBA)
 IC406 8-759-600-61 s M54529AP (MITSUBISHI)

IC407 8-759-200-68 s TC4011BF (TOSHIBA)
 IC408 8-759-200-68 s TC4011BF (TOSHIBA)
 IC409 8-759-200-68 s TC4011BF (TOSHIBA)
 IC410 8-759-205-78 s TC504013BF (TOSHIBA)
 IC411 8-759-205-78 s TC504013BF (TOSHIBA)

IC412 8-759-205-78 s TC504013BF (TOSHIBA)
 IC413 8-759-914-03 s SN74LS06N (TI)
 IC415 8-759-200-82 s TC4069UBF (TOSHIBA)

L1 1-412-533-11 s MICRO 47
 L2 1-412-533-11 s MICRO 47
 L3 1-412-533-11 s MICRO 47
 L4 1-412-533-11 s MICRO 47
 L5 1-412-533-11 s MICRO 47

L201 1-412-533-11 s MICRO 47
 L202 1-412-533-11 s MICRO 47
 L401 1-412-533-11 s MICRO 47

Q1 8-729-216-21 s 2SA1162Y
 Q2 8-729-216-21 s 2SA1162Y
 Q3 8-729-202-38 s 2SC3326N
 Q4 8-729-216-21 s 2SA1162Y
 Q5 8-729-216-21 s 2SA1162Y

Q6 8-729-216-21 s 2SA1162Y
 Q7 8-729-202-38 s 2SC3326N
 Q8 8-729-216-21 s 2SA1162Y
 Q9 8-729-216-21 s 2SA1162Y
 Q10 8-729-216-21 s 2SA1162Y

Q11 8-729-202-38 s 2SC3326N
 Q12 8-729-216-21 s 2SA1162Y
 Q13 8-729-216-21 s 2SA1162Y
 Q14 8-729-216-21 s 2SA1162Y
 Q15 8-729-177-33 s 2SD773-4

Q16 8-729-113-34 s 2SB733-5
 Q17 8-729-271-23 s 2SC2712
 Q18 8-729-271-23 s 2SC2712
 Q19 8-729-177-33 s 2SD773-4
 Q20 8-729-113-34 s 2SB733-5

Q21 8-729-271-23 s 2SC2712
 Q22 8-729-271-23 s 2SC2712
 Q23 8-729-177-33 s 2SD773-4
 Q24 8-729-113-34 s 2SB733-5
 Q25 8-729-107-84 s 2SC3623A-L

Q26 8-729-107-84 s 2SC3623A-L
 Q27 8-729-107-84 s 2SC3623A-L
 Q28 8-729-107-84 s 2SC3623A-L
 Q29 8-729-107-84 s 2SC3623A-L
 Q30 8-729-107-84 s 2SC3623A-L

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

C-40, TR-18, VO-18

Ref.No. Parts No. SP Description

Q31 8-729-216-21 s 2SA1162Y
Q32 8-729-982-23 s 2SB822
Q33 8-729-271-23 s 2SC2712
Q34 8-729-271-23 s 2SC2712
Q35 8-729-271-23 s 2SC2712

Q36 8-729-271-23 s 2SC2712
Q37 8-729-271-23 s 2SC2712
Q38 8-729-901-04 s DTA114EK
Q39 8-729-202-38 s 2SC3326N
Q40 8-729-202-38 s 2SC3326N

Q201 8-729-600-27 s 2SC634SP
Q202 8-729-177-54 s 2SA1175
Q203 8-729-271-23 s 2SC2712
Q204 8-729-271-23 s 2SC2712
Q205 8-729-901-06 s DTA144EK

Q206 8-729-901-06 s DTA144EK
Q207 8-729-202-38 s 2SC3326N
Q208 8-729-202-38 s 2SC3326N
Q209 8-729-202-38 s 2SC3326N
Q210 8-729-202-38 s 2SC3326N

Q211 8-729-271-23 s 2SC2712
Q212 8-729-271-23 s 2SC2712
Q213 8-729-109-42 s 2SK94
Q214 8-729-901-06 s DTA144EK
Q215 8-729-901-06 s DTA144EK

Q401 8-729-271-23 s 2SC2712
Q402 8-729-271-23 s 2SC2712

R15 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
R16 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
R18 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
R33 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
R34 1-216-643-11 s METAL CHIP 470 0.50% 1/10W

R36 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
R55 1-216-671-11 s METAL CHIP 6.8k 0.50% 1/10W
R56 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
R57 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
R58 1-216-671-11 s METAL CHIP 6.8k 0.50% 1/10W

R61 1-216-092-00 s CHIP 62k 5% 1/10W
R66 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
R67 1-216-658-11 s METAL CHIP 2k 0.50% 1/10W
R73 1-249-453-11 s CARBON 3.3 5% 1/4W
R80 1-249-453-11 s CARBON 3.3 5% 1/4W

R81 1-249-453-11 s CARBON 3.3 5% 1/4W
R84 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
R87 1-249-453-11 s CARBON 3.3 5% 1/4W
R88 1-249-453-11 s CARBON 3.3 5% 1/4W
R110 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W

R118 1-216-653-11 s METAL CHIP 1.2k 0.50% 1/10W
R120 1-216-653-11 s METAL CHIP 1.2k 0.50% 1/10W
R121 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
R122 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
R227 1-216-042-11 s CHIP 510 5% 1/10W

Ref.No. Parts No. SP Description

R238 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
R337 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
R338 1-216-647-11 s METAL CHIP 680 0.50% 1/10W
R341 1-216-624-11 s METAL CHIP 75 0.50% 1/10W
R342 1-216-676-11 s METAL CHIP 11k 0.50% 1/10W

R343 1-216-624-11 s METAL CHIP 75 0.50% 1/10W
R344 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
R345 1-216-663-11 s METAL CHIP 3.3k 0.50% 1/10W
R346 1-216-663-11 s METAL CHIP 3.3k 0.50% 1/10W
R347 1-216-663-11 s METAL CHIP 3.3k 0.50% 1/10W

R348 1-216-663-11 s METAL CHIP 3.3k 0.50% 1/10W
R349 1-216-675-11 s METAL CHIP 10k 0.50% 1/10W
R359 1-216-691-11 s METAL CHIP 47k 0.50% 1/10W

RV1 1-237-518-21 s VAR, CERMET 10k
RV2 1-237-518-21 s VAR, CERMET 10k
RV3 1-237-518-21 s VAR, CERMET 10k
RV4 1-237-519-21 s VAR, CERMET 20k
RV5 1-237-512-21 s VAR, CERMET 100

RV6 1-237-518-21 s VAR, CERMET 10k
RV7 1-237-515-21 s VAR, CERMET 1k
RV201 1-237-516-21 s VAR, CERMET 2k
RV202 1-237-516-21 s VAR, CERMET 2k

S1 1-570-602-11 s DIP
S2 1-570-619-11 s DIP
S3 1-570-619-11 s DIP

TH1 1-800-200-00 s S-3K
TH2 1-800-200-00 s S-3K

X401 1-579-693-11 s VIBRATOR 6.00MHz

TR-18 BOARD

1-611-279-13 o PRINTED CIRCUIT BOARD, TR-18

8-745-001-07 s DM230-1

VO-18 BOARD

A-6711-813-A o MOUNTED CIRCUIT BOARD, VO-18

C3 1-124-584-00 s ELECT 100 20% 10V
C5 1-124-584-00 s ELECT 100 20% 10V
C13 1-131-359-00 s TANTAL 10 20% 25V
C14 1-131-359-00 s TANTAL 10 20% 25V
C15 1-124-224-00 s ELECT 47 20% 6.3V

C18 1-163-111-00 s CERAMIC 56pF 5% 50V
C20 1-124-225-00 s ELECT 100 20% 6.3V
C27 1-124-236-00 s ELECT 47 20% 10V
C29 1-124-236-00 s ELECT 47 20% 10V
C30 1-124-222-00 s ELECT 22 20% 6.3V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

C32	1-124-465-00	s	ELECT	0.47	20%	50V
C45	1-124-584-00	s	ELECT	100	20%	10V
C48	1-124-584-00	s	ELECT	100	20%	10V
C52	1-163-105-00	s	CERAMIC	33pF	5%	50V
C55	1-124-584-00	s	ELECT	100	20%	10V

C56	1-124-584-00	s	ELECT	100	20%	10V
C70	1-124-584-00	s	ELECT	100	20%	10V
C76	1-124-225-00	s	ELECT	100	20%	6.3V
C78	1-124-224-00	s	ELECT	47	20%	6.3V
C87	1-124-224-00	s	ELECT	47	20%	6.3V

C608	1-124-899-00	s	ELECT	22	20%	25V
C611	1-124-499-11	s	ELECT	1	20%	50V
C613	1-124-499-11	s	ELECT	1	20%	50V
C616	1-124-225-00	s	ELECT	100	20%	6.3V
C628	1-124-899-00	s	ELECT	22	20%	25V

C631	1-124-499-11	s	ELECT	1	20%	50V
C633	1-124-499-11	s	ELECT	1	20%	50V
C646	1-124-899-00	s	ELECT	22	20%	25V
C648	1-124-899-00	s	ELECT	22	20%	25V
C651	1-136-157-00	s	MYLAR	0.022	10%	50V

C655	1-124-222-00	s	ELECT	22	20%	6.3V
C702	1-163-033-00	s	CERAMIC	0.022		50V
C703	1-163-033-00	s	CERAMIC	0.022		50V
C704	1-124-462-00	s	ELECT	10	20%	16V
C705	1-163-033-00	s	CERAMIC	0.022		50V

C706	1-124-462-00	s	ELECT	10	20%	16V
C707	1-163-033-00	s	CERAMIC	0.022		50V
C710	1-163-033-00	s	CERAMIC	0.022		50V
C713	1-163-033-00	s	CERAMIC	0.022		50V
C714	1-163-033-00	s	CERAMIC	0.022		50V

C715	1-163-033-00	s	CERAMIC	0.022		50V
C716	1-163-033-00	s	CERAMIC	0.022		50V
C717	1-124-927-11	s	ELECT	4.7	20%	50V
C718	1-163-033-00	s	CERAMIC	0.022		50V
C719	1-163-033-00	s	CERAMIC	0.022		50V

C720	1-163-033-00	s	CERAMIC	0.022		50V
C721	1-124-462-00	s	ELECT	10	20%	16V
C722	1-124-234-00	s	ELECT	22	20%	10V
C723	1-124-234-00	s	ELECT	20	20%	10V
C724	1-124-229-00	s	ELECT	33	20%	6.3V

C725	1-124-224-00	s	ELECT	47	20%	6.3V
C726	1-163-033-00	s	CERAMIC	0.022		50V
C727	1-163-033-00	s	CERAMIC	0.022		50V

CN103	1-506-748-11	s	DIN 96P			
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CV1	1-141-260-00	s	TRIMMER 50pF			
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D1	8-719-109-55	s	RD2.4ES-B			
D2	8-719-109-55	s	RD2.4ES-B			
D601	8-719-101-23	s	1SS123			
D602	8-719-101-23	s	1SS123			
D603	8-719-921-11	s	HZ2ALL			

D604	8-719-921-11	s	HZ2ALL			
D605	8-719-101-23	s	1SS123			

DL1	1-415-565-11	s	370ns			
DL2	1-415-543-11	s	ACTIVE			

Ref.No. Parts No. SP Description

FB601	1-535-178-00	s	FERRITE BEAD			
FB602	1-535-178-00	s	FERRITE BEAD			

FL1	1-236-005-11	s	LOW-PASS	5.5MHz		
FL601	1-236-014-11	s	BANDPASS			
FL602	1-236-015-11	s	BANDPASS			
FL603	1-236-590-11	s	LOW-PASS	1.0MHz		
FL604	1-236-590-11	s	LOW-PASS	1.0MHz		

FL700	1-236-139-11	s	LOW-PASS	3.58MHz		
FL701	1-236-139-11	s	LOW-PASS	3.58MHz		

IC1	8-759-014-29	s	MC34184M (MOTOROLA)			
IC3	8-759-947-82	s	TL610CPS (TI)			
IC4	8-752-015-81	s	CX20158 (SONY)			
IC5	8-752-015-81	s	CX20158 (SONY)			
IC6	8-752-015-81	s	CX20158 (SONY)			

IC7	8-759-204-94	s	TC74HC00F (TOSHIBA)			
IC8	8-759-941-17	s	SN74LS06NS (TI)			
IC9	8-759-204-98	s	TC74HC08F (TOSHIBA)			
IC10	8-759-204-96	s	TC74HC04F (TOSHIBA)			
IC11	8-752-015-81	s	CX20158 (SONY)			

IC12	8-752-015-81	s	CX20158 (SONY)			
IC13	8-752-015-81	s	CX20158 (SONY)			
IC14	8-752-015-81	s	CX20158 (SONY)			
IC15	8-759-908-17	s	TL082CPS (TI)			
IC16	8-759-009-07	s	MC14053BF (MOTOROLA)			

IC17	8-759-030-16	s	MC34182M (MOTOROLA)			
IC100	8-759-708-05	s	NJM78L05A (JRC)			
IC101	8-759-708-08	s	NJM78L08A (JRC)			
IC102	8-759-700-65	s	NJM79L05A (JRC)			
IC103	8-759-700-67	s	NJM79L08A (JRC)			

IC104	8-759-708-05	s	NJM78L05A (JRC)			
IC105	8-759-700-65	s	NJM79L05A (JRC)			
IC106	8-759-708-05	s	NJM78L05A (JRC)			
IC107	8-759-700-65	s	NJM79L05A (JRC)			
IC108	8-759-941-79	s	S-80230AG (SEIKO I AND E)			

IC109	8-759-708-08	s	NJM78L08A (JRC)			
IC110	8-759-700-65	s	NJM79L05A (JRC)			
IC111	8-759-937-61	s	S-81230AG (SEIKO I AND E)			
IC112	8-759-708-05	s	NJM78L05A (JRC)			
IC113	8-759-700-65	s	NJM79L05A (JRC)			

IC601	8-752-011-00	s	CX20111 (SONY)			
IC602	8-752-011-00	s	CX20111 (SONY)			
IC603	8-759-207-74	s	TC4030BFHB (TOSHIBA)			
IC604	8-759-700-43	s	NJM4558M (JRC)			
IC605	8-759-205-78	s	TC504013BF (TOSHIBA)			

IC606	8-759-200-90	s	TC4538BF (TOSHIBA)			
IC700	8-759-941-27	s	MB4002PF (FUJITSU)			
IC701	8-759-929-80	s	SN74LS08NS (TI)			
IC702	8-749-938-10	s	BX381 (SONY)			
IC703	8-759-030-16	s	MC34182M (MOTOROLA)			

IC704	8-759-100-93	s	uPC393G2 (NEC)			
IC705	8-759-008-52	s	MC74HC123AF (MOTOROLA)			
IC706	8-759-947-82	s	TL610CPS (TI)			
IC707	8-752-015-81	s	CX20158 (SONY)			
IC708	8-759-929-78	s	SN74LS04NS (TI)			

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No. Parts No. SP Description

L1 1-421-329-00 s CHOKE
 L2 1-421-329-00 s CHOKE
 L3 1-421-329-00 s CHOKE
 L4 1-421-329-00 s CHOKE
 L5 1-421-329-00 s CHOKE

L7 1-410-478-11 s MICRO 47
 L8 1-410-478-11 s MICRO 47
 L9 1-410-478-11 s MICRO 47
 L12 1-410-478-11 s MICRO 47
 L13 1-410-478-11 s MICRO 47

L14 1-410-478-11 s MICRO 47
 L17 1-410-482-31 s MICRO 100
 L20 1-410-471-11 s MICRO 12
 L701 1-410-478-11 s MICRO 47
 L702 1-410-478-11 s MICRO 47
 L703 1-410-478-11 s MICRO 47
 L704 1-410-478-11 s MICRO 47

LV1 1-407-573-00 s VAR 47
 LV2 1-407-573-00 s VAR 47

Q1 8-729-100-66 s 2SC1623
 Q2 8-729-100-66 s 2SC1623
 Q3 8-729-931-02 s 2SC2413KQ
 Q4 8-729-931-02 s 2SC2413KQ
 Q5 8-729-931-02 s 2SC2413KQ

Q6 8-729-102-07 s 2SC2223-F13
 Q7 8-729-931-02 s 2SC2413KQ
 Q8 8-729-931-02 s 2SC2413KQ
 Q9 8-729-931-02 s 2SC2413KQ
 Q10 8-729-931-02 s 2SC2413KQ

Q11 8-729-907-27 s IMXIT110
 Q12 8-729-931-02 s 2SC2413KQ
 Q13 8-729-122-63 s 2SA1226
 Q14 8-729-931-02 s 2SC2413KQ
 Q15 8-729-122-63 s 2SA1226

Q16 8-729-931-02 s 2SC2413KQ
 Q17 8-729-931-02 s 2SC2413KQ
 Q18 8-729-931-02 s 2SC2413KQ
 Q19 8-729-100-76 s 2SA812
 Q20 8-729-931-02 s 2SC2413KQ

Q21 8-729-902-97 s FMS1
 Q22 8-729-903-10 s FMW1
 Q25 8-729-931-02 s 2SC2413KQ
 Q26 8-729-100-76 s 2SA812
 Q27 8-729-100-76 s 2SA812

Q28 8-759-100-66 s 2SC1623
 Q29 8-759-100-66 s 2SC1623
 Q30 8-729-904-42 s FMY3
 Q31 8-729-122-63 s 2SA1226
 Q32 8-729-931-02 s 2SC2413KQ

Q35 8-729-931-02 s 2SC2413KQ
 Q36 8-729-931-02 s 2SC2413KQ
 Q37 8-729-931-02 s 2SC2413KQ
 Q38 8-729-907-27 s IMXIT110
 Q39 8-729-931-02 s 2SC2413KQ

Q40 8-729-901-01 s DTC144EK
 Q501 8-729-100-76 s 2SA812
 Q502 8-729-100-76 s 2SA812
 Q503 8-729-902-97 s FMS1
 Q504 8-729-903-10 s FMW1

Ref.No. Parts No. SP Description

Q601 8-729-100-66 s 2SC1623
 Q602 8-729-100-66 s 2SC1623
 Q603 8-729-100-66 s 2SC1623
 Q604 8-729-100-66 s 2SC1623
 Q605 8-729-100-66 s 2SC1623

Q700 8-729-100-66 s 2SC1623
 Q701 8-729-931-02 s 2SC2413KQ
 Q702 8-729-931-02 s 2SC2413KQ
 Q703 8-729-100-66 s 2SC1623
 Q704 8-729-904-42 s FMY3

R1 1-216-638-11 s METAL CHIP 300 0.50% 1/10W
 R2 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R4 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R5 1-216-641-11 s METAL CHIP 390 0.50% 1/10W
 R7 1-216-647-11 s METAL CHIP 680 0.50% 1/10W

R8 1-216-641-11 s METAL CHIP 390 0.50% 1/10W
 R11 1-216-641-11 s METAL CHIP 390 0.50% 1/10W
 R14 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R15 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R16 1-216-643-11 s METAL CHIP 470 0.50% 1/10W

R17 1-216-649-11 s METAL CHIP 820 0.50% 1/10W
 R18 1-216-655-11 s METAL CHIP 1.5k 0.50% 1/10W
 R19 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R20 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R21 1-216-627-11 s METAL CHIP 100 0.50% 1/10W

R26 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
 R27 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R30 1-216-677-11 s METAL CHIP 12k 0.50% 1/10W
 R31 1-216-645-11 s METAL CHIP 560 0.50% 1/10W
 R32 1-216-627-11 s METAL CHIP 100 0.50% 1/10W

R33 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R34 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R36 1-216-631-11 s METAL CHIP 150 0.50% 1/10W
 R39 1-216-653-11 s METAL CHIP 1.2k 0.50% 1/10W
 R40 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W

R41 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R42 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R43 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R44 1-216-636-11 s METAL CHIP 240 0.50% 1/10W
 R48 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W

R50 1-216-611-11 s METAL CHIP 22 0.50% 1/10W
 R51 1-216-611-11 s METAL CHIP 22 0.50% 1/10W
 R58 1-216-644-11 s METAL CHIP 510 0.50% 1/10W
 R72 1-216-641-11 s METAL CHIP 390 0.50% 1/10W
 R73 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W

R75 1-216-644-11 s METAL CHIP 510 0.50% 1/10W
 R79 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R81 1-216-641-11 s METAL CHIP 390 0.50% 1/10W
 R85 1-216-639-11 s METAL CHIP 330 0.50% 1/10W
 R91 1-216-643-11 s METAL CHIP 470 0.50% 1/10W

R92 1-216-643-11 s METAL CHIP 470 0.50% 1/10W
 R93 1-216-659-11 s METAL CHIP 2.2k 0.50% 1/10W
 R94 1-216-679-11 s METAL CHIP 15k 0.50% 1/10W
 R95 1-216-677-11 s METAL CHIP 12k 0.50% 1/10W
 R96 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W

R97 1-216-651-11 s METAL CHIP 1k 0.50% 1/10W
 R98 1-216-637-11 s METAL CHIP 270 0.50% 1/10W
 R101 1-216-657-11 s METAL CHIP 1.8k 0.50% 1/10W
 R104 1-216-611-11 s METAL CHIP 22 0.50% 1/10W
 R105 1-216-624-11 s METAL CHIP 75 0.50% 1/10W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description		
R106	1-216-619-11	s	METAL CHIP 47	0.50Z	1/10W
R109	1-216-643-11	s	METAL CHIP 470	0.50Z	1/10W
R111	1-216-673-11	s	METAL CHIP 8.2k	0.50Z	1/10W
R112	1-216-624-11	s	METAL CHIP 75	0.50Z	1/10W
R114	1-216-649-11	s	METAL CHIP 820	0.50Z	1/10W
R115	1-216-645-11	s	METAL CHIP 560	0.50Z	1/10W
R116	1-216-657-11	s	METAL CHIP 1.8k	0.50Z	1/10W
R117	1-216-659-11	s	METAL CHIP 2.2k	0.50Z	1/10W
R119	1-216-627-11	s	METAL CHIP 100	0.50Z	1/10W
R120	1-216-611-11	s	METAL CHIP 22	0.50Z	1/10W
R121	1-216-619-11	s	METAL CHIP 47	0.50Z	1/10W
R122	1-216-611-11	s	METAL CHIP 22	0.50Z	1/10W
R124	1-216-619-11	s	METAL CHIP 47	0.50Z	1/10W
R125	1-216-623-11	s	METAL CHIP 68	0.50Z	1/10W
R126	1-216-624-11	s	METAL CHIP 75	0.50Z	1/10W
R128	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R130	1-216-647-11	s	METAL CHIP 680	0.50Z	1/10W
R131	1-216-638-11	s	METAL CHIP 300	0.50Z	1/10W
R140	1-216-627-11	s	METAL CHIP 100	0.50Z	1/10W
R141	1-216-659-11	s	METAL CHIP 2.2k	0.50Z	1/10W
R143	1-216-659-11	s	METAL CHIP 2.2k	0.50Z	1/10W
R145	1-216-647-11	s	METAL CHIP 680	0.50Z	1/10W
R146	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R147	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R148	1-216-636-11	s	METAL CHIP 240	0.50Z	1/10W
R149	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R150	1-216-653-11	s	METAL CHIP 1.2k	0.50Z	1/10W
R153	1-216-619-11	s	METAL CHIP 47	0.50Z	1/10W
R154	1-216-619-11	s	METAL CHIP 47	0.50Z	1/10W
R201	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R202	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R203	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R204	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R505	1-216-627-11	s	METAL CHIP 100	0.50Z	1/10W
R506	1-216-627-11	s	METAL CHIP 100	0.50Z	1/10W
R508	1-216-624-11	s	METAL CHIP 75	0.50Z	1/10W
R511	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W
R609	1-216-603-11	s	METAL CHIP 10	0.50Z	1/10W
R612	1-216-032-00	s	CHIP 200	5Z	1/10W
R629	1-216-603-11	s	METAL CHIP 10	0.50Z	1/10W
R642	1-216-032-00	s	CHIP 200	5Z	1/10W
R666	1-216-699-11	s	METAL CHIP 100k	0.50Z	1/10W
R672	1-247-895-00	s	CARBON 470k	5Z	1/4W
R676	1-216-672-11	s	METAL CHIP 7.5k	0.50Z	1/10W
R702	1-216-630-91	s	METAL CHIP 130	0.50Z	1/10W
R703	1-216-644-11	s	METAL CHIP 510	0.50Z	1/10W
R706	1-216-644-11	s	METAL CHIP 510	0.50Z	1/10W
R710	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W
R711	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W
R712	1-216-667-11	s	METAL CHIP 4.7k	0.50Z	1/10W
R713	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W
R714	1-216-675-11	s	METAL CHIP 10k	0.50Z	1/10W
R715	1-216-667-11	s	METAL CHIP 4.7k	0.50Z	1/10W
R718	1-216-662-11	s	METAL CHIP 3k	0.50Z	1/10W
R719	1-216-665-11	s	METAL CHIP 3.9k	0.50Z	1/10W
R720	1-216-662-11	s	METAL CHIP 3k	0.50Z	1/10W
R724	1-216-679-11	s	METAL CHIP 15k	0.50Z	1/10W
R727	1-216-659-11	s	METAL CHIP 2.2k	0.50Z	1/10W
R728	1-216-663-11	s	METAL CHIP 3.3k	0.50Z	1/10W
R730	1-216-644-11	s	METAL CHIP 510	0.50Z	1/10W

Ref.No.	Parts No.	SP	Description		
R733	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R734	1-216-651-11	s	METAL CHIP 1k	0.50Z	1/10W
R735	1-216-671-11	s	METAL CHIP 6.8k	0.50Z	1/10W
R741	1-216-658-11	s	METAL CHIP 2k	0.50Z	1/10W
R743	1-216-619-11	s	METAL CHIP 47	0.50Z	1/10W
R746	1-216-603-11	s	METAL CHIP 10	0.50Z	1/10W
R746	1-216-639-11	s	METAL CHIP 330	0.50Z	1/10W
RV1	1-237-515-21	s	VAR, CERMET	1k	
RV2	1-237-503-21	s	VAR, CERMET	10k	
RV4	1-237-518-21	s	VAR, CERMET	10k	
RV5	1-237-514-21	s	VAR, CERMET	500	
RV6	1-237-517-21	s	VAR, CERMET	5k	
RV7	1-237-515-21	s	VAR, CERMET	1k	
RV9	1-237-514-21	s	VAR, CERMET	500	
RV10	1-237-515-21	s	VAR, CERMET	1k	
RV11	1-237-515-21	s	VAR, CERMET	1k	
RV12	1-237-503-21	s	VAR, CERMET	10k	
RV13	1-237-515-21	s	VAR, CERMET	1k	
RV14	1-237-501-21	s	VAR, CERMET	2k	
RV15	1-237-517-21	s	VAR, CERMET	5k	
RV16	1-237-512-21	s	VAR, CERMET	100	
RV17	1-237-512-21	s	VAR, CERMET	100	
RV19	1-237-512-21	s	VAR, CERMET	100	
RV20	1-230-838-11	s	VAR, METAL FILM	200	
RV21	1-230-838-11	s	VAR, METAL FILM	200	
RV22	1-230-838-11	s	VAR, METAL FILM	200	
RV23	1-237-515-21	s	VAR, CERMET	1k	
RV601	1-237-515-21	s	VAR, CERMET	1k	
RV700	1-237-514-21	s	VAR, CERMET	500	
RV701	1-237-516-21	s	VAR, CERMET	2k	
RV702	1-237-514-21	s	VAR, CERMET	500	
RV703	1-237-515-21	s	VAR, CERMET	1k	
RV704	1-237-516-21	s	VAR, CERMET	2k	
S1	1-570-857-11	s	SLIDE		
S2	1-570-857-11	s	SLIDE		
S3	1-570-857-11	s	SLIDE		
S4	1-570-857-11	s	SLIDE		
S5	1-570-857-11	s	SLIDE		

VR-42 BOARD

1-622-592-12 o PRINTED CIRCUIT BOARD, VR-42

RV11	1-237-781-11	s	VAR, CARBON	10k	
RV12	1-237-781-11	s	VAR, CARBON	10k	

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

VR-61/62, SWITCHING REGULATOR

Ref.No. Parts No. SP Description

VR-61 BOARD

1-622-588-11 o PRINTED CIRCUIT BOARD, VR-61

RV1 1-237-719-00 s VAR, CARBON 100k
RV2 1-237-782-11 s VAR, CARBON 10k

VR-62 BOARD

1-622-589-13 o PRINTED CIRCUIT BOARD, VR-62

RV541 1-230-501-11 s VAR, CARBON 20k/20k

SWITCHING REGULATOR UR-21B

1-413-307-24 s SWITCHING REGULATOR UR-21B

M201 1-541-431-31 s DC FAN

UR-21B C1 BOARD

C51	1-161-925-91	s	CERAMIC	100pF	10%	500V
C52	1-161-925-91	s	CERAMIC	100pF	10%	500V
C53	1-131-458-51	s	TANTAL	1.5	20%	16V
C55	1-130-018-51	s	FILM	0.001	5%	50V
C56	1-130-528-51	s	TEREPHTHALATE	0.1	10%	50V
C57	1-130-506-91	s	TEREPHTHALATE	0.0015	10%	50V
C59	1-130-528-51	s	TEREPHTHALATE	0.1	10%	50V
C61	1-124-924-91	s	ELECT	1	20%	100V
CN52	1-564-352-11	o	PIN 7P			
CN53	1-564-352-11	o	PIN 7P			
D51	1-807-913-21	s	11EQS04			
D52	1-807-913-21	s	11EQS04			
D53	1-807-913-21	s	11EQS04			
D54	1-807-913-21	s	11EQS04			
D55	8-719-911-19	s	1SS119			
D56	8-719-911-19	s	1SS119			
D57	8-719-109-93	s	RD6.2ES-B3			
D58	8-719-107-87	s	03P2M			
D59	8-719-911-19	s	1SS119			
D60	8-719-911-19	s	1SS119			
D61	8-719-911-19	s	1SS119			
D62	8-719-911-19	s	1SS119			
D63	8-719-109-75	s	RD4.3ES-B2			

Ref.No. Parts No. SP Description

IC51 8-759-937-59 s MB3759 (FUJITSU)
IC52 8-759-103-93 s uPC393C (NEC)

L51 1-410-466-21 s MICRO 4.7

Q51 8-729-208-04 s 2SK422
Q52 8-729-208-04 s 2SK422
Q53 8-729-117-54 s 2SA1175
Q54 8-729-178-54 s 2SC2785
Q55 8-729-117-54 s 2SA1175

R56 1-247-903-00 s CARBON 1M 5% 1/4W

RV51 1-228-990-11 s VAR, METAL GLAZE 1k

UR-21B C2 BOARD

C51	1-161-925-91	s	CERAMIC	100pF	10%	500V
C52	1-161-925-91	s	CERAMIC	100pF	10%	500V
C53	1-131-458-51	s	TANTAL	1.5	20%	16V
C56	1-130-528-51	s	TEREPHTHALATE	0.1	10%	50V
C57	1-130-506-91	s	TEREPHTHALATE	0.0015	10%	50V
C59	1-130-528-51	s	TEREPHTHALATE	0.1	10%	50V

CN52 1-564-352-11 o PIN 7P
CN53 1-564-352-11 o PIN 7P

D51 1-807-913-21 s 11EQS04
D52 1-807-913-21 s 11EQS04
D53 1-807-913-21 s 11EQS04
D54 1-807-913-21 s 11EQS04
D55 1-719-911-19 s 1SS119
D56 1-719-911-19 s 1SS119
D57 8-719-110-41 s RD15ES-B2
D58 8-719-107-87 s 03P2M
D59 8-719-911-19 s 1SS119
D60 8-719-911-19 s 1SS119
D61 8-719-911-19 s 1SS119
D62 8-719-911-19 s 1SS119
D63 8-719-110-22 s RD11ES-B2

IC51 8-759-937-59 s MB3759 (FUJITSU)
IC52 8-759-103-93 s uPC393C (NEC)

L51 1-410-466-21 s MICRO 4.7

Q51 8-729-208-04 s 2SK422
Q52 8-729-208-04 s 2SK422
Q53 8-729-117-54 s 2SA1175
Q54 8-729-178-54 s 2SC2785
Q55 8-729-117-54 s 2SA1175

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

SWITCHING REGULATOR

Ref.No.	Parts No.	SP	Description
R56	1-247-903-00	s	CARBON 1M 5% 1/4W
RV51	1-228-990-11	s	VAR, METAL GLAZE 1k

Ref.No.	Parts No.	SP	Description
D212	1-807-963-21	s	31DF2
D213	8-719-110-13	s	RD9.1ES-B2
D214	1-807-911-21	s	F10P40FR
D215	8-719-912-20	s	1SS120
D216	8-719-912-20	s	1SS120
D220	8-719-200-01	s	10E-1
D222	8-719-200-01	s	10E-1

UR-21B MI BOARD

C101	1-136-564-11	s	CERAMIC	1000pF	10%	500V
C102	1-136-564-11	s	CERAMIC	1000pF	10%	500V
C104	1-125-477-11	s	ELECT	470	20%	400V
C105	1-125-477-11	s	ELECT	470	20%	400V
C106	1-161-915-00	s	CERAMIC	1000pF	10%	500V
C107	1-161-915-00	s	CERAMIC	1000pF	10%	500V
C203	1-161-915-00	s	CERAMIC	1000pF	10%	500V
C204	1-161-915-00	s	CERAMIC	1000pF	10%	500V
C205	1-124-636-51	s	ELECT	3300	20%	25V
C206	1-130-516-91	s	TEREPHTHALATE	0.01	10%	50V
C209	1-124-891-51	s	ELECT	10000	20%	6.3V
C211	1-130-772-00	s	FILM	0.22	10%	63V
C212	1-124-621-51	s	ELECT	3300	20%	6.3V
C213	1-130-772-00	s	FILM	0.22	10%	63V
C214	1-124-585-51	s	ELECT	3300	20%	10V
C221	1-130-518-91	s	TEREPHTHALATE	0.015	10%	50V
C222	1-130-524-51	s	TEREPHTHALATE	0.047	10%	50V
C223	1-130-524-51	s	TEREPHTHALATE	0.047	10%	50V
C227	1-124-120-51	s	ELECT	220	20%	25V
C228	1-130-772-00	s	FILM	0.22	10%	63V
C229	1-130-772-00	s	FILM	0.22	10%	63V
C230	1-130-772-00	s	FILM	0.22	10%	63V

△ CN101 1-564-242-11 o 5P

CN201	1-564-932-11	o	9P
CN202	1-560-893-00	o	5P
CN203	1-560-299-11	o	2P
CN204	1-560-890-00	o	2P

D101	8-719-109-75	s	RD4.3ES-B2
D102	8-719-912-20	s	1SS120
D103	1-807-913-21	s	11EQS04
D104	1-807-913-21	s	11EQS04
D201	1-807-774-21	s	AU02A
D202	8-719-109-85	s	RD5.1ES-B2
D203	8-719-109-85	s	RD5.1ES-B2
D204	8-719-911-19	s	1SS119
D205	8-719-200-01	s	10E-1
D206	8-719-200-01	s	10E-1
D207	1-807-911-11	s	F10P40F
D208	8-719-200-01	s	10E-1
D209	8-719-200-01	s	10E-1
D210	8-719-302-60	s	FML-32S
D211	1-807-963-21	s	31DF2

FB201	1-543-060-11	s	FERRITE BEAD
FB202	1-543-060-11	s	FERRITE BEAD
FB203	1-543-060-11	s	FERRITE BEAD
FB204	1-543-060-11	s	FERRITE BEAD
FB205	1-543-060-11	s	FERRITE BEAD
FB206	1-543-060-11	s	FERRITE BEAD

IC101	1-807-814-11	s	B-5272 (JRM)
IC201	8-759-135-80	s	uPC358C (NEG)
IC202	8-759-077-33	s	TL431CLP (TI)
IC203	8-759-077-33	s	TL431CLP (TI)

L201	A-4935-038-A	s	CHOKE
L202	1-421-459-21	s	CHOKE
L203	A-4935-037-A	s	CHOKE
L204	1-421-459-21	s	CHOKE
L205	1-421-734-11	s	CHOKE
L206	1-421-459-21	s	CHOKE
L207	1-421-459-21	s	CHOKE

△ PS101	1-532-605-11	s	IC LINK
PS102	1-532-605-11	s	IC LINK
PS201	1-532-605-11	s	IC LINK

Q101	1-807-858-11	s	IREF451
Q102	1-807-858-11	s	IREF451
Q103	8-729-113-32	s	2SB733
Q104	8-729-113-32	s	2SB733
Q201	8-729-103-43	s	2SB734
Q202	8-729-178-54	s	2SC2785
Q203	8-729-178-54	s	2SC2785
Q204	8-729-178-54	s	2SC2785
Q205	1-807-914-11	s	2SA1443
Q206	8-729-177-43	s	2SD774
Q207	1-807-914-11	s	2SA1443
Q208	8-729-117-54	s	2SA1175
Q209	1-807-915-11	s	2SC3692-L
Q210	8-729-178-54	s	2SC2785

R102 1-247-713-11 s CARBON 1k 5% 1/4W

△ R103	1-247-692-11	s	CARBON 22 5% 1/4W
R104	1-247-692-11	s	CARBON 22 5% 1/4W
R107	1-205-622-00	s	CEMENT 33 5% 5W

R203 1-247-698-11 s CARBON 68 5% 1/4W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

SWITCHING REGULATOR

Ref.No. Parts No. SP Description

△ R210	1-205-623-11	s	CEMENT	47	5%	5W
R212	1-215-888-00	s	METAL OXIDE	2220	5%	2W
R215	1-247-887-00	s	CARBON	220k	5%	1/4W
△ R220	1-215-866-11	s	METAL OXIDE	330	5%	1W
R221	1-247-696-11	s	CARBON	47	5%	1/4W
△ R225	1-215-865-11	s	METAL	220	5%	1W
R229	1-214-669-71	s	METAL	3.3	1%	1/4W
△ R230	1-215-889-00	s	METAL OXIDE	330	5%	2W
R231	1-215-889-00	s	METAL OXIDE	330	5%	2W

RV201 1-230-667-11 s VAR, CERMET 500

ST201 1-571-055-91 s THERMAL SENSOR

△ T101	1-448-393-11	s	CONVERTER
T102	A-4935-035-A	s	CONVERTER
T103	1-421-819-11	s	CURRENT
T104	1-437-188-11	s	DRIVE
T105	1-437-188-11	s	DRIVE
T106	1-447-938-11	s	CONVERTER

UR-21B M2 BOARD

△ C151	1-136-185-12	s	FILM	0.22	20%	250V
C152	1-136-185-12	s	FILM	0.22	20%	250V
C154	1-136-185-12	s	FILM	0.22	20%	250V
C155	1-161-742-12	s	CERAMIC	2200pF	20%	400V
C156	1-161-742-12	s	CERAMIC	2200pF	20%	400V

△ C157	1-161-742-00	s	CERAMIC	2200pF	20%	400V
C158	1-161-742-00	s	CERAMIC	2200pF	20%	400V
C159	1-161-742-00	s	CERAMIC	2200pF	20%	400V

C161	1-136-564-11	s	FILM	1.8	10%	250V
C162	1-136-564-11	s	FILM	1.8	10%	250V

C163	1-161-915-00	s	CERAMIC	1000pF	10%	500V
C164	1-161-915-00	s	CERAMIC	1000pF	10%	500V

△ C165	1-161-742-00	s	CERAMIC	2200pF	20%	400V
C166	1-161-742-00	s	CERAMIC	2200pF	20%	400V
C167	1-161-742-00	s	CERAMIC	2200pF	20%	400V

C251	1-161-915-00	s	CERAMIC	1000pF	10%	500V
C252	1-161-915-00	s	CERAMIC	1000pF	10%	500V
C253	1-124-556-11	s	ELECT	2200	20%	16V
C254	1-124-360-00	s	ELECT	1000	20%	16V
C255	1-124-790-11	s	ELECT	0.47	20%	100V

Ref.No. Parts No. SP Description

C256	1-124-898-11	s	ELECT	4700	20%	16V
C257	1-124-898-11	s	ELECT	4700	20%	16V
C258	1-124-898-11	s	ELECT	4700	20%	16V
C260	1-124-563-11	s	ELECT	2200	20%	25V
C263	1-136-155-00	s	TEREPHTHALATE	0.015	10%	50V
C264	1-136-161-00	s	TEREPHTHALATE	0.047	10%	50V
C265	1-136-161-00	s	TEREPHTHALATE	0.047	10%	50V
C268	1-130-772-00	s	FILM	0.22	10%	63V
C269	1-130-772-00	s	FILM	0.22	10%	63V
C270	1-130-772-00	s	FILM	0.22	10%	63V

△ CN151 1-564-215-11 o PIN 4P

CN251	1-566-313-11	o	PIN 7P
CN252	1-560-893-00	o	PIN 5P
CN253	1-560-890-00	o	PIN 2P

△ D151 1-807-907-11 s KB088JLM

D153	1-807-913-21	s	11EQ804
D154	1-807-913-21	s	11EQ804
D251	1-807-909-11	s	F10P201
D252	1-807-921-11	s	FMG-34S

D253	1-807-911-21	s	F10P40FR
D254	8-719-109-97	s	RD6.8ES-B2
D255	8-719-912-00	s	1SS120
D256	8-719-912-00	s	1SS120
D257	8-719-200-01	s	10E-1

D258	8-719-911-19	s	1SS119
D260	8-719-912-20	s	1SS120

△ F151 1-532-604-21 s 250V 3A

FB251	1-543-060-11	s	FERRITE BEAD
FB252	1-543-060-11	s	FERRITE BEAD
FB253	1-543-060-11	s	FERRITE BEAD
FB254	1-543-060-11	s	FERRITE BEAD
FB255	1-543-060-11	s	FERRITE BEAD

FB256 1-543-060-11 s FERRITE BEAD

IC251 8-759-007-33 s TL431CLP (TI)

△ L151 1-421-590-11 s LINE FILTER
L152 1-421-978-11 s LINE FILTER

L251	A-4935-039-A	s	CHOKE ASS'Y
L252	1-421-459-00	s	CHOKE
L253	1-421-734-11	s	CHOKE

L254	1-408-322-00	s	CHOKE
L255	1-421-459-00	s	CHOKE
L512	1-421-978-11	s	LINE FILTER

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

SWITCHING REGULATOR, FRAME

Ref.No. Parts No. SP Description

Q1 51 1-807-858-11 s IREP451
Q1 52 1-807-858-11 s IREP451
Q1 53 8-729-113-32 s 2SB733
Q1 54 8-729-113-32 s 2SB733
Q2 51 8-729-178-54 s 2SC2785

Q2 52 1-807-915-11 s 2SC3692-L
Q2 53 8-729-178-54 s 2SC2785

R1 51 1-202-727-11 s SOLID 4.7M 10% 1/2W

△ R1 52 1-205-915-11 s WIREWOUND 4.7 10% 7W
R1 53 1-205-915-11 s WIREWOUND 4.7 10% 7W
R1 54 1-247-692-11 s CARBON 22 5% 1/4W
R1 55 1-247-692-11 s CARBON 22 5% 1/4W

△ R1 58 1-205-652-00 s CEMENT 68 5% 5W
R2 51 1-205-622-00 s CEMENT 33 5% 5W
R2 54 1-215-865-11 s METAL 220 5% 1W

R2 58 1-214-669-71 s METAL 3.3 1% 1/4W

△ R2 59 1-215-889-00 s METAL 330 5% 2W

△ R2 60 1-215-889-00 s METAL 330 5% 2W

RV2 51 1-230-668-11 s VAR, CERMET 1k

△ RY1 51 1-515-662-11 s POWER

ST2 51 1-571-055-71 s THERMAL SENSOR

△ T1 51 A-4935-036-A s CONVERTER
T1 52 1-421-819-11 s CURRENT
T1 53 1-437-188-11 s DRIVE
T1 54 1-437-188-11 s DRIVE

Ref.No. Parts No. SP Description

FRAME

A-6050-504-A s HEAD DRUM ASS'Y, DBH-01A-R
A-6634-236-B s KEY CHASSIS ASS'Y
A-6730-924-A s INDICATION TUBE ASS'Y
A-6762-403-A s DRUM ASS'Y, UPPER, DBR-01-R

△ 1-413-307-24 s SWITCHING REGULATOR, UR-21B

1-464-821-22 s CONVERTER, DC-DC (INDICATION TUBE)
1-520-496-11 s AUDIO LEVEL METER (INDICATION TUBE)
1-559-261-11 s FLAT CABLE (KEY CHASSIS)
1-559-265-11 o FLAT CABLE (CASSETTE UP COMPARTMENT)

△ CB001 1-576-036-11 s BREAKER, CIRCUIT 6.3A

△ CN001 1-580-375-21 s 3P INLET

CN002 1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR UC)
"CH-1 IN"
1-509-176-51 s RECEPTACLE, XLR, MALE (FOR J)
"CH-1 IN"

CN003 1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR UC)
"CH-2 IN"
1-509-176-51 s RECEPTACLE, XLR, MALE (FOR J)
"CH-2 IN"

CN004 1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR UC)
"CH-3 IN"
1-509-176-51 s RECEPTACLE, XLR, MALE (FOR J)
"CH-3 IN"

CN005 1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR UC)
"CH-4 IN"
1-509-176-51 s RECEPTACLE, XLR, MALE (FOR J)
"CH-4 IN"

CN006 1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR UC)
"TIME CODE IN"
1-509-176-51 s RECEPTACLE, XLR, MALE (FOR J)
"TIME CODE IN"

CN007 1-509-176-51 s RECEPTACLE, XLR, MALE (FOR UC)
"TIME CODE OUT"
1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR J)
"TIME CODE OUT"

CN008 1-509-176-51 s RECEPTACLE, XLR, MALE (FOR UC)
"CH-1 OUT"
1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR J)
"CH-1 OUT"

CN009 1-509-176-51 s RECEPTACLE, XLR, MALE (FOR UC)
"CH-2 OUT"
1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR J)
"CH-2 OUT"

CN010 1-509-176-51 s RECEPTACLE, XLR, MALE (FOR UC)
"CH-3 OUT"
1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR J)
"CH-3 OUT"

CN011 1-509-176-51 s RECEPTACLE, XLR, MALE (FOR UC)
"CH-4 OUT"
1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR J)
"CH-4 OUT"

CN012 1-509-176-51 s RECEPTACLE, XLR, MALE (FOR UC)
"SELECTED CH-1/CH-3 OUT"
1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR J)
"SELECTED CH-1/CH-3 OUT"

CN013 1-509-176-51 s RECEPTACLE, XLR, MALE (FOR UC)
"SELECTED CH-2/CH-4 OUT"
1-509-184-51 s RECEPTACLE, XLR, FEMALE (FOR J)
"SELECTED CH-2/CH-4 OUT"

CN014 1-509-095-00 s RECEPTACLE, 8P "MONITOR OUT"
CN015 1-561-781-21 s RECEPTACLE, BNC "VIDEO-1 OUT"

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref.No.	Parts No.	SP	Description
CN016	1-561-781-21	s	RECEPTACLE, BNC "VIDEO-2 OUT"
CN017	1-561-781-21	s	RECEPTACLE, BNC "VIDEO-3 OUT"
CN018	1-561-781-21	s	RECEPTACLE, BNC "REF.VIDEO OUT"
CN019	1-562-160-00	s	RECEPTACLE, 12P, FEMALE "DUB/COMPONENT 1 OUT"
CN021	1-561-781-21	s	RECEPTACLE, BNC "REF. VIDEO IN"
CN022	1-561-781-21	s	RECEPTACLE, BNC "REF. VIDEO IN (THROUGH OUT)"
CN023	1-561-781-21	s	RECEPTACLE, BNC "VIDEO IN"
CN024	1-561-781-21	s	RECEPTACLE, BNC "VIDEO IN (THROUGH OUT)"
CN025	1-564-407-00	s	RECEPTACLE, 12P, MALE "DUB/COMPONENT 1 IN"
CN026	1-561-781-21	s	RECEPTACLE, BNC "COMPONENT 2 Y IN"
CN027	1-561-781-21	s	RECEPTACLE, BNC "COMPONENT 2 R-Y IN"
CN028	1-561-781-21	s	RECEPTACLE, BNC "COMPONENT 2 B-Y IN"
CN029	1-561-781-21	s	RECEPTACLE, BNC "COMPONENT 2 Y OUT"
CN030	1-561-781-21	s	RECEPTACLE, BNC "COMPONENT 2 R-Y OUT"
CN031	1-561-781-21	s	RECEPTACLE, BNC "COMPONENT 2 B-Y OUT"

△ CN151 1-564-215-11 o PIN 4P

CN430 1-562-285-11 o PLUG HOUSING (TO SW'ING REG)
 CN431 1-562-833-11 o PLUG HOUSING (TO SW'ING REG)
 CN432 1-562-800-11 o PLUG HOUSING (TO SW'ING REG)

H001 8-825-770-72 s HEAD, ERASE EF291-21 "FE"
 H002 8-825-554-73 s HEAD, CTL PS244-21 "CTL"
 H003 8-825-623-21 s HEAD, AT EPS244-2103B
 "AUDIO/TIME CODE"
 H004 8-825-771-11 s HEAD PS244-2103C "CONF"

L8 1-543-316-21 s SENSOR "TAPE BEGINNING SENSOR"
 L9 1-543-316-21 s SENSOR "TAPE END SENSOR"

M001 1-541-431-31 s MOTOR, DC "FAN"
 M002 8-835-179-01 s MOTOR, DC MCB2B15 "THREADING"
 M003 8-835-179-01 s MOTOR "L/S POSITION"
 M004 8-835-259-01 s MOTOR, DC BHF-1918A "CAPSTAN"
 M006 A-6737-175-A s MOTOR ASS'Y "S-REEL"
 M007 A-6737-175-A s MOTOR ASS'Y "T-REEL"
 M008 1-541-376-11 s MOTOR, DC DNR-4700A "UP/DOWN"

ME002 1-520-494-11 s "VIDEO/RF"

PL001 1-518-508-00 s 12V 60mA "CASSETTE LAMP"
 PL002 1-518-508-00 s 12V 60mA "CASSETTE LAMP"
 PL003 1-518-508-00 s 12V 60mA "CASSETTE LAMP"

PM001 1-454-372-11 s SOLENOID "CLEANER"
 PM002 1-454-338-11 s SOLENOID "PINCH"
 PM003 1-454-417-11 s SOLENOID "S-BRAKE"
 PM004 1-454-417-11 s SOLENOID "T-BRAKE"

△ S001 1-570-117-31 s ROCKER "POWER"

19-4. PACKING MATERIAL AND ACCESSORIES (SUPPLIED)

Parts No.	SP	Description
A-6729-474-A	s	MOUNTED PCB, EX-116
A-6729-475-A	s	MOUNTED PCB, EX-134
A-6729-476-A	s	MOUNTED PCB, EX-151
1-506-746-21	o	PIN, DIN CONNECTOR (DIP) 48P
1-506-748-21	o	PIN, DIN CONNECTOR (DIP) 96P

△ 1-551-812-00 s CORD, POWER (for UC)
 1-557-161-00 s CORD, POWER (for J)

1-557-413-12 s CABLE, DUBBING 12P
 1-580-228-11 s CONNECTOR, (P-M) 12P
 1-580-229-11 s CONNECTOR, (P-F)

1-563-339-11 o HOUSING, CONNECTOR (DIP) 48P
 1-563-341-21 o HOUSING, CONNECTOR (DIP) 96P
 1-751-019-81 o CABLE, REMOTE CONTROL 9P

2-237-802-00 s CUSHION
 2-251-622-00 s CUSHION

3-701-616-00 s BAG, POLY
 3-701-623-00 s BAG, POLY
 3-701-630-00 s BAG, POLY
 3-701-632-00 s BAG, POLY
 3-701-649-00 s BAG, POLY

3-721-867-01 o INDIVIDUAL CARTON
 3-721-869-05 o CUSHION (UPPER)
 3-721-870-03 o CUSHION (LOWER)
 3-721-888-01 o SPACER (SIDE)
 3-721-889-01 o SLEEVE (A)

3-721-890-01 o SLEEVE (B)
 3-721-891-01 o SPACER (A)
 3-721-892-01 o SPACER (B)

19-5. FIXTURE (OPTION)

Parts No.	SP	Description
J-6001-820-A	s	DRUM ECCENTRICITY GAUGE (3)
J-6001-830-A	s	DRUM ECCENTRICITY GAUGE (2)
J-6001-840-A	s	DRUM ECCENTRICITY GAUGE (1)
J-6031-820-A	s	MULTI CONNECTOR CABLE (DIBNC)
J-6080-011-A	s	REEL TABLE TENSION GAUGE
J-6086-570-A	s	FLATNESS PLATE
J-6087-000-A	s	DRUM ECCENTRICITY GAUGE (5)
J-6152-450-A	s	WIRE CLEARANCE GAUGE
J-6190-800-A	s	TENSION REGULATOR SLANTNESS CHECK GAUGE
J-6320-680-A	s	REEL TABLE HEIGHT GAUGE
J-6320-870-A	s	REEL MOTOR SHAFT SLANTNESS CHECK GAUGE
J-6320-880-A	s	CASSETTE REFERENCE PLATE
2-034-697-00	s	CLEANING PIECE
7-723-902-00	s	INSPECTION MIRROR
7-732-050-20	s	TENSION SCALE (50G FULL SCALE)
7-732-050-30	s	TENSION SCALE (100G FULL SCALE)
8-960-096-01	s	ALIGNMENT TAPE, CR2-1B
8-960-097-45	s	ALIGNMENT TAPE, CR8-1A
8-960-096-41	s	ALIGNMENT TAPE, CR5-1B
8-960-097-44	s	ALIGNMENT TAPE, CR5-2A
9-911-053-00	s	THICKNESS GAUGE
9-919-573-01	s	CLEANING FLUID
Standard products		HEAD DEMAGNETIZER (HE-4)

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 are shown in the "General Purpose Electrical Parts List".